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Ketchak-Dance of Bone

Originally the ketchak was a choir of men who by their litanies cooperated with the Sanghyang girl that was to be put into a trance. The intention of any Sanghyang (trance) performance was that the girl while in a state of trance (semi-consciousness) would be capable of hearing and telling the wishes of the gods or of the ancestors.

At present this ketchak is also performed with a special story (libretto). This story has been chosen from the Ramayana saga. Very condensed, the contents of the Ramayana saga are as follows:

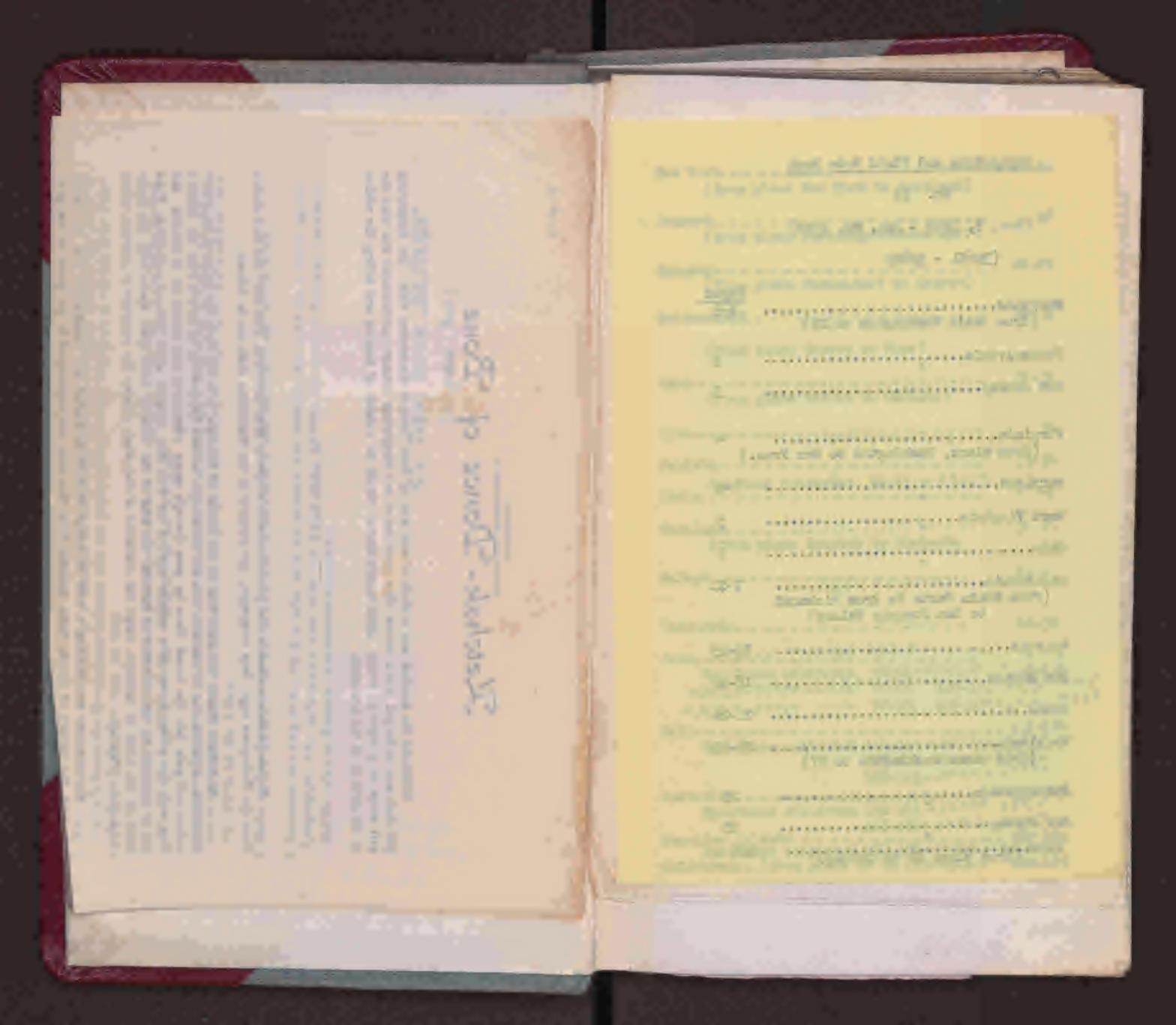
By intrigue Rama, the legal heir to the throne of Ayodhya, is exiled from the realm of his father Dasaratha. Accompanied by his wife Sita and his younger brother Laksamana he moves from his father's palace and goes into the forest. Here he goes through many adventures and finally he is chasing the deer with the golden horns. At a certain moment his wife Sita remains alone without protection. Then she is kidnaped by the followers of Rawana, the king of the demons. After that, Rama with the assistance of the army of monkeys, under the command of Hanuman, attacks the residence of Rawana, called Lengkapura (Ceylon).

The monkeys are building a weir of bridge between Hindustan and Lengkapura and the battle ends with the victory of Rama. Some episodes from this saga are represented in the dance of the principal figures:

- 1. After the departure of Rama, Sita is speaking to his younger brother Laksamana. Sita orders him to go and help Rama who has persued the deer with the golden horns, because Sita hears a call for help, thinking it is Rama, who calls for help.
- 2. Sita, already kidnaped by Rawana, is staying at a bower in his palace. There she is visited by Rawana, who asks her hand for marriage. She then burst all into tears.
- 3. Rama marches out to Lengkapura to rescue Sita, his wife. He meets Meganada, Rawana's son and becomes involved in a combat with the demon. Meganada shoots his arrow, which turns into a serpant and ties Rama up like a rope.
- 4. Rama tied up, beseeches the gods to help him. Then Wishnu's bird, Garuda, is sent to free Rama.
- 5. Hanuman, the king of the monkey talks with his generals and mobilizes his army for a battle against Lengkapura. The performance ends with the battle-scene between the army of Hanuman (monkeys) and the army of Rawana (Rakshashas or demons).

N.V. Travel Bureau "BALITOUR"

Denpasar (Bali)



Collection and Field Note Book

No. 53

(Nov. 5, 1958 - Jan. 20, 1959)

(39651 - 39809

Pennsylvania	Maryland (from train Washington to NY)	Pages
Virginia	Pennsylvania	3
Maryland	New Jersey	3
West Virginia	Virginia(from plane, Washington to San Fran	.) 4
Ohio	Maryland	4-5
California	West Virginia	5
Arizona	Ohio	6
New Mexico	(from train Santa Fe from Richmond	7-11.
Texas	Arizona	12-15
Maryland	New Mexico	16-21
Pennsylvania	Texas	21-24
New Jersey 25	Maryland(from plane Washington to NY)	24-25
New Jersey 25 Iowa (Prom plane SF to Chicago) 190	Pennsylvania	25
Iowa (Prom plane SF to Chicago) 190	New Jersey	25
	Iowa (Prom plane SF to Chicago)	190

New York (from plane New York to Scotland)	25-26
Denmark (from plane Copenhagen-Dusseldorf)	28
Germany (from plane Dusseldorf to Geneva)	28-29
Switzerland	29-31
(from plane Geneva to Rome)	
Oman	31-32
Iran	33
Pakistan	33-36
Specimen collected 52-53 = 3945/ India	37-42
Thailand (from plane Bangkok to Djakarta	31-45
Malaya	42-46
Indonesia	48-50
Java	9741-39763
Beli	786
Australia 1 Specimens collected 142-143 #39799-39	139-179 1805 1807
Hawaiian Islands	180-181
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BXCURSION III

to

Baluran (East Java) and Bali

by Bus.

- Leaving Tjiawi at 6.00 a.m. for Solo in Central Java Dec. 22. via Bandung, Tjirebon, Tegal, Semarang and Salatiga. It will be a heavy journey this day. Midwey Tjiawi-Bandung we will see some plantations of teak, which are truly out of bounds from an ecological angle: the annual rainfall is too high; age about 10 years. Afterwards the bus climbs along the slopes of bare hills: G. Missigit tertiary formations of limestone. Bandung will be reached at 8.30; the capital of West Java, well-known since the Asia-Africa Conference in 1956; Centre of Institutes devoted to the study of the Natural Sciences, Physics, etc. Leaving Bandung on our left hand the volcano Tangkubanprahu, which is still active, on the slopes of which are cultivated Cinchona and Pinus merkusii. For some kilometres we will drive along ravines with picturesque landscapes, with Bamboo, Eupatorium palescens and Alsophila spp. Entering the plains of Tjirebon on our right hand we see the Nunuk hills, which are severely eroded. These plains are the most western part of Java where sugar cane can be grown. From here the region with a distinct monsoon climate starts. From Tjirebon to Semarang the road follows the north coast of Central Java. This is a region where onions are grown on a large scale and further more sugar cane and rice. Lunch will be at Tegal at 13.00. At 5.00 p.m. we will be passing through Semarang the Capital of Central Java. Along the road to Salatiga we see Myristica fragrans (nutmeg) and Hevea plantations. At sunset we will have left Salatiga and we hope to arrive at the Dana-Hotel in Solo at 7.00 p.m. Solo is the Centre of Javanese art and culture. The Sunan has his palace here.
- Dec. 23. Solo Madiun Gempol Pasirputih.

 Depature from the Dana-Hotel at 7.00 a.m.

 For an hour the journey is not very interesting: wide plains just ploughed for growing rice in the next wet season.

After crossing the border between Central and East Java (after about one hour and a half) we will be driving through teak plantations, most of which are devastated by cattle. Typical species of the Malaysian Monsoon Forests will be seen here, some of which are: Acacia leucophloea, Schleichera oleosa, Schoutenia ovata, Butea monosperma, Lagerstroemia cinerea, Homalium tomentosum. Before Ngawi near Trinil, Dubois discovered the famous Pitecanthropos erectus dating from the middlepleistocene. The volcane on our right hand is the Lawu. After Madiun we will see again some teak forests of various age. Just after Kertosono the river Brantas will be crossed; this river causes trouble every year by its floods. Between Djombang and Modjokerto was the centre of the 13th century kingdom of Modjopahit. In a museum in Trowulan, near Modjokerto, some antiquities from those times are conserved. At 1.00 p.m. lunch will be served at Gempol. The afternoon-trip after Gempol along the north coast of East Java will be for about 3 hours via Pasuruan, Probolinggo. End of this day's journey will be Pasirputih (White sands); staying the night over here in rest-houses on the beach.

The Baluran region

This region contering around the extinct Baluran volcano is characterized by its dry climate (less than 1000 mm annually) with a severe dry monsoon of 10 months. In the dry season dry winds come down from the Idjen Pass (600 ft.).

There are practically no rivers. The soil, originally lava, has changed into heavy, black earth, strewn with basalt and

andezite blocks.

The vegetation is savana-like, along the small mountainn stroams we find gallery forest. During the dry season the vegetation burns regularly, which prevents the re-establishment of the forest. The latter is well developed towards the summit of the Baluran.

Many plants have subterranean parts enabling them to survice drought and fire, such as Dioscorea hispida, Asparagus racemosus, Crinum asiaticum and some orchids (Plantanthera susannae, Pogonia nervillia).

The trees are deciduous and flower often on the bare

branches, e.g. Dillenia pentagyna.

Of the grasses the most common is andropogon amboinicus, f. genuinus, which becomes more than 2 m tall. Other species are A. parviflora, A. zollingeri, A. triticus, A. contortus and A. subtilis. Other tall grasses are Rottboelia exaltata and Ophiurus exaltata, which remind one of a horses tail.

Themeda argueus is also common.

Among the traes the most conspicuous are Acacia leucophloea with yelloe-white bark.

The Palmae are represented by Borassus flabellifer and

Corypha gebanga.

Scattered here and there we find Ficus superba (krasak), and in the driest places a thorny scrub consisting of Feronia elephantum, Aegle marmeles, Acacia tomentosa Homalium tomentosum.

We also oncounter Schleichera trijuga (Kosambi), Protium javanicum, Grewia, Phyllanthus emblica, Melia Azedarach, Albizia lebbeckoides and A. procera, Cordia obliqua, Morinda tinctoria and Schoutenia ovata, Tamarindus indica.

On level ground where the heavy impermeable black soil is deeply cracked during the dry season, the grass cover is thinner and Lizyphus mauritiana is common, often with an abundance of Ipomoea

At the margins of the open places occur the yellow-flowering

Abutilon indicus and Thespesia lampas, in moister places

Ophioglossum reticulatum.

Rauvolfia serpentina grows in the better parts of the forest, Butea monosperma, the flame of the forest, is common in teak plantations. The teak does not do very well here.

Field notebook no. 53 beginning with 39651 End with 39809



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1958 Meryland nov. > - Trip by lennsylvania K.K. from Washington to New youll - left side of han. Fall coloring about at its height an eittle part. Leaveralmost all faller from Phirodendron, Robinia, Belula migra, and some Platen. Fagus bare, translitets penny color. Liquidambar about at its best, with a range from yellow through nange to reds and purples. acer rubrum very striking, from bright yellow to bright ref. Myssa scarlet but some trees baro. quereur alla dull purple but mostly already gray - trous, gireias veluting mostly ahead, from. querous exercised deep red to marrow. Guereus palustres crange-brown to reddish quertus phellos yearing hom. orange-red- Crown. There seeves to be considerable variation in stage of charge ocending to habitet manatih. Extensive pine land along m. south of Odentin. north of here the season becomes rapidly more advances mostly valis and willows still

2 1500 marylans 1956 Maryland - Cennsylvanis 3 the dominant trees are What appears to be a magnolia bog across mostly bare seem from the big Westinghous more advances. plant, south of big miles south of calvery north of Philadelphia the trees are not entirely Distillery, with of bare, but more so galtimore. than southward, and North of Baltimas they the colorane much seems little difference less evident. from the situation described In new Jersey theo for north of Washington. is little color left. The season seems much except in the shrub less advanced then it is layers. Some trees immediately south of are still green however Baltimore. Perhaps the This probably generally differences may be more reflects the extremely applyprographic than climater. wet season this past summer, and the lack Amall Magnolia swampe of hard frosts. The along left side just " routh out leaves are mostly of first large arm of bay from Betula populifolia crossed by track. In this 1 and Popular tremulandeslar arm are large areas of 1. grandidentata) are yellow. marsh now completely straw Liquidambar, though extend, west of track some not coundant, is very distance. well colored. The conspicuous coloration I lame variation in apparent in The shrub layers in stage of advancement of of woods where the trees season noted moth of are already bare should be abendeen It seems really emphasized. Most of the shows only a matter of the frest could not be identified from a type concerned, those when distance, but some ay tices where.

4 1998 Virginia - Maryland West Virginia nov. 12 ain trip, Washington just to the west of it also Do San Francisco, direct, 300 p. m. going only a short way right side of place. north Potmac meander along lotornac above morthwestward after Washington to somewhat before reaching the Harper below fleat talls and then terry gap. over Montgomery Co. M. Then churse turned somewhat some autiem coloring more southward, over a small still apparent, but most city (with august) and q large Trees bare on brown. Rapidly gudunging operating that less color westward. may be a coment plant. Very little left at bugarlog then a series of straight mt! and westward. even wooded ridges separated Considerable amount of -by flattish cultivated velley frine fact in montgomery some forthill lend, also Co. furt west of Washington -worked, dissected by transverse mostly strangery outlined ravinges but north- south patches, in general not parallel ridges very notically differing much from the even in spite of this. outlines of presently cultivaled Frest militages mostly figlds. deciderous, with a scattering Somo color stall in Catosten of conifers, but the rolling and Bull Run mis & Print of or plattish eand of the Roche fearely and but for thills and valleys, where worded, hang again reattered yellow substantial proportion of trees on that and some red pure conferous frest, this on east slope of alu Ridgest mostly in angular patcher Harpen Teny, west slopes red-from. Two main range while are certainly old fields. West of about the Ind on 4th of felue Ridge her on maryland main ridge is a voilley side, completely separated, the with striking entrenched western me only gring a short way meanders. West of this & ridges north, several subordinate redges with flattish tops, cultivated, but pails with angular pour that stops on the set hardend but,



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HANDLING OF BAGGAGE for passengers traveling to San Francisco. The attendant in each chair car and porters of each Pullman will contact passengers traveling to San Francisco and place a check on hand luggage, giving you a stub. This checked luggage will be unloaded at Richmond and moved by truck direct to the Santa Fe passenger terminal in downtown San Francisco. It will be ready for you when you arrive at the terminal. This service has been arranged to avoid any delay or inconvenience in handling your luggage to San Francisco.

A WORD ABOUT SMOKING for chair car passengers. You'll note in the arm of your seat an ash tray for the convenience of smokers. We do not encourage smoking in chair cars and rely on the consideration of passengers to do what is best in their judgment of when to smoke and how often they should smoke. Each car is ventilated every three hours but this does not always overcome the objections that many passengers have to excessive smoking.

If you notice your neighboring passengers objecting, we suggest you do a limited amount of smoking in your seat and make an occasional visit to the lounge car where smoking is more acceptable to all passengers.

SCHEDULE OF THE SAN FRANCISCO CHIEF is printed for your convenience on the following pages of this folder.

At Clovis there is a short stop for leg stretching while train is being serviced. At other stops the schedule does not permit passengers to leave the train.

Thank you-bappy traveling

1998 California nov 14 - Railroad trife Santa Fer (a.7. 15.F.) write from Richmond along the upper Lan Francisco Bay to the Lan Joaquin Valley. grassy hills along completely dry and dull gray from except for occasional scattered hond-leafed blants, Patelin of planted crealyptus. quintelia in flower along track, Freniculum vulgare. a few small maisles in rances emptying into bay, some with faliennia, mostly with Toghta. Some along the shore on flat low ground. In hells in places reattered darli green Baccharis pilcelaris. Ravines have Latin, yource, Geyand Pinole are higher with palcher of constal ravines with oak prest. patilier of both antumual harba. There woody wegetation exiting 10 1959 California. to a dwarfed spreading stature. Losath of Plandy the route gres for a short distance through rolling grassland. They mere destrado, large land after Regrand large areas of slightly dry falming fortang withertnut and light worded blanks alongdy River Channels of Chowchille Kive. ast areas of rolling Issentially Treeless dry farmed land between Chowshilla and Frem Rivers - more luxuriant around Mudera.

South of Fresso the aventy

Men Kings River and just

south of it is rather &close

savanna or open from to

large oaks, either g, lobate

or godouglasis.

Henford is an aneary bistublis

iz interservely cultivated,

largely in cotten.

nov. 17 - west of Williams pingon-juniper open unh frest with this grass, some drear with Pinus ponderes forest. a few inches of snow. Between Williams and Hagstaff - open but more or less intimous stand of small fines 3-5 m. tall, with thin grass and with scattered taller poises, 20-25 in tall. So much snow that jet is hard to be sure if the small primes are P. ponderoza, but they probably are. The large opperare. This situation could arise from fire a from planned logging and management, is perhaps from former heavy grazing. Cast of Flagstaff the prome freet is true variet, some open ground. forme away of ocattered pine with abundent scallingsin a few years it love much like that described above. Low riform open therest areas to fe m. talk, no tell win then pringer juniper open schub Chest ver Kange areas. a few inches of snow everywhere

ELCAPITAN Tr. 18, Eastbound, 39½ hrs. Los Angeles-Chicago Daily, All-Chair-Car Hi-Level Streamliner.

Alti-	Mls.	Read Down	-	Alti-		Read Down	-
13		Leave San Diego Train 79,		-		Ar LA JUNTAColo	8.20PM
10		5.00 pm, arrive Los Angeles		100.00		Ly LA JUNTAColo.	8.25PM
		Union Station 7.35 pm.		4040		Cross Purgatoire River	8.44Pl
318	0	Ly LOS ANGELES . Cal.	8.00PM			Caddoa Dam	8.51Pl
	2	.Cross Los Angeles River	8.08PM	3603		Lv LAMAR Colo.	
35		Long Beach passengers for				Stops at Lamar to	-500
		El Capitan leave at 7.00 p.m., via motor coach for				receive passengers for	
		Pasadena.				Kansas City and beyond or South of Newton and	
830	9	LV PASADENA Cal.	8.30PM			to discharge passengers	
0.30	21		8.52PM			from Albuquerque and	
eca	31	Ly POMONA Cal.	9.07PM			beyond.	
860 1077	60		9.3794		1310	Cross Arkaneas River	9.23PI
3822	87	Ø 1 10 1		0000		Cross ColoKan. boundary	
JULL	07	Bernardino and San Ga-	10 4100	2830	1387	Lv GARDEN CITYKan	41024P
		briel Mountains	10.11PM			& Stops at Garden City	
	108	Cross Mojave River	10.55PM			to receive passengers for Kansas City and beyond	
2105	142	Lv BARSTOWCal	11.35PM			or South of Newton and	
476	308	Ar NEEDLES,	2.07AM			to discharge passengers	
476	308	Lv NEEDLES (PST)Cal.	2.17AM			from Albuquerque and beyond.	
		Leaving Needles turn			1.400	V 2014 C.	11 150
	-	watches AHEAD one hour.		2486	1437		11.15P
- 1	320	Cross Colorado River,	-			At Dodge City turn	
- 3	. 1	CalifArizona boundary	J. 25 AM			watches AHEAD one hour.	
5242		LUSELIGMAN (MST). Ariz.	6.11AM	2400	1427	Lv DODGE CITY (CST) Kan.	12 184
6748		Lv WILLIAMSAriz.	17.26AM	2400		Cross Arkansas River	12.50M
7313		Cross Arizona Divide	7.58AM		-	. Cross Arkansas River	1.50A
6902	1000	Lv FLAGSTAFF Ariz	18 06AM	1530	100000	Lv HUTCHINSONKan	*1 53A
5.0		Cross Canyon Diablo	8.87AM	1330	1000		1 00%
4943	-	Lv WINSLOWAriz,	9.05AM			*Stops at Hutchinson to receive passengers for	
	604	Cross Little Colorado River	9.08AM			Kansas and beyond or	
6506		Cross ArizN.M. boundary	10 52AM			South of Newton and to	
7247			11 WOAM			discharge passengers from Albuquerque and beyond.	
, Ed.		Cross Rio Puerco	The second second				9 2011
		Cross Rio Grande				Ar NEWTON Kan	2 30M
4934		Ar ALBUQUERQUE N.M		1445		Lv NEWTON Kan	2 35A
		Lv ALBUQUERQUE N.M		781	1776	Ar KANSAS CITY	5 35AM
		Ar LAMY N.Mex.		781	1776	LV KANSAS CITY . MO	5 50M
	974	For Santa Fe and Land of		1		Cross Missouri River	a man
-300	3/4	Pueblos take motor coach				Cross Grand River	7 . I PAN
	115	from Lamy 2.35 pm., arrive Santa Fe 3.10 pm.				Cross Chariton River.	7 5514
						Cross N. Fabius River	8 1810
		Leave Santa Fe 1.45 pm.				Cross Wyaconda River.	8 35M
		via motor coach to con- nect with the El Capitan			1976	Cross Des Moines River	-
		at Lamy.				Missouri-lowa boundary	S. SOAN
6457	956	Lv LAMY N.Mex	2.30FM	521	1992	Lv SHOPTONla	9 20W
		Cross Pecos River	S. DOPM	523	1994	Lv FT. MADISON la	9 25 AW
		Cross Gallinas River	4.05PM		1995	Cross Mississippi River,	
6392		Ar LAS VEGAS N. Mex.	4.05PM			Iowa-Illinois boundary.	0.0718
6392	1021	Lv LAS VEGAS N.Mex	4.08PM	755	2049	Lv GALESBURGIII	\$1015M
		Passing through Rocky				! Stops at Galesburg only	
		Mountains-beautiful				to discharge passengers	
		views of mountains.	0.00			from Lamy, N. M. and scheluled stops Albuquer-	
		Ar RATON N.Mex.	6.01PM			que and beyond.	1
6666	1131	Lv RATON N.Mex.	6 04PM		0.5		10 311
7588	1138	Cross New Mexico-Colo-	6 25PM			Cross Spoon River	
		rado boundary through Raton Tunnel, one-half				Ar CHILLICOTHEIII.	
		mile long and highest				Cross Minois River	
		point on the Santa Fe.				Cross Vermilion River.	
5971	1153	Lv TRINIDADColo	47.01PM			LV STREATORIII.	
	10	Stops at Trinidad only				Cross Kankakee River	
	10	to receive passengers for Kansas City and beyond				Ly JOLIET & III.	
		or South of Newton and				. Cross Des Plaines River .	
		discharge passengers from				Cross Des Plaines River. Ar CHICAGO (CST) [11].	
		Albuquerque and beyond.		334.9	6663	MI CHILAGO (CSI)	1.311

receive passengers for scheduled stops Albuerquque and beyond.

1Stops to discharge passengers from Los Angeles; also to receive passengers for scheduled stops Kansas City and beyond.

Indicates Rail-Auto Service available:

et platean If, and etering a hay ile the 2 m. + tal south which voted shereix ed of the is a dway a steppe to 1 m. tall, 40.5, : some frades Busher lovel red lung

no-17 seat mit are. sit prino 200 ave tun in los des



HERE'S HOW TO OPERATE YOUR CHAIR

A This trigger on arm controls back of seat. Pull up on trigger and push seat back to position desired. When seat is reclined pull up on trigger to bring back of seat forward.

B Legrest pulls up and can be set to position desired. Notice that when you pull legrest to a position higher than level of seat it will drop down.

By turning legrest completely upside down you can make a crib of seat for small child.

C Button at inside top of each seat permits you to adjust top part of seat to position you find most comfortable.

There is a center arm that folds into back of seat when not in use.

Reading lamp focused above each seat can be used as you desire.

We caution passengers not to stand or sit on legrest of their seats as they will not support your weight and may cause injury.

PILLOWS are available from the news agent. He will be through the train to offer you a pillow, which can be purchased for 50c for your trip.

DRESSING ROOMS AND LAVATORIES are located on the lower level of each chair car. Also, there are lavatories on the upper level of the lounge car.

Out on open flat pla Flagstaff. Winslow the pringer, grange, way to Winster. scribb savanna steppe usher up to 1 m. tall, mostly less than 0.5, possibly Purshis some etically no bushes lovely mostly a ran dom the slightly rolling steppe covered plateau.

Still east of this the sleppe changes to a turning our steppe with breatly, tufts of chipsothanking, and another type of erosion, remark low, mera-like, sparely and wreverly distributed on the platerie. They more duraf such Just east of Winslow are considerable areas of Tamarix serub, mostly alling a broad wash which now has water in it. The Tamarix has turned a burnt orange-brown in color. annihit in the rolling platean is a morain of open send and steppe. Forally small patches of scattered collowood mixed with the Tamarich. This mosaic continues to Holbrook and beyond, Rocally Tamarix replaced along hive by small of youlus Rast of Hollrook scattery small sandstony mesons and butter + anther east an asses

of small dune, - it's various measures taken to stabilize them along Tractes, including should planting. mesas more conspicuous. all morning, generally, Sastward large areas of starub shrains and dwarf strub savan, directed plateau crivily. at about anyong newmornins boundary the prevailing vigetation changes to another frest or savanna of pruyonjuniper. I hally before falley a line of west-fracing red cliffs, locally cut into beautiful nanow dones and pillars. almost bare of regetation. Toward gullup the route follows a will canyon end in a sandetone platean. Scrub savanno in bottom, rocattered Piness fronderesa sor open kingon-gunifier on top.

16 1952 New Mexico 17 Tamarioli tommon fast of gallup, to moth the steppe change eastward to another dwarf serve which cover enosion features in red large areas of rolling randstone. Prevailing plain around and northeast vegetation open soul of Dalles Jot. Princepal in walley bottoms, when shrub seems to be sent fold a savana artenisis (cf. pilifalia?). of pingon-jumps on and possibly Crameia of. (wordly menas and rulys. Snow is gone from her. Still thin soon we fouttered small Rques enorything. Pinyon-juniper continues firme rather old lava for almy distany eastward beds a mothwest side at but after evosion features a distance a few prenipes are passed it alternates Arcally. will lange flat or advant result of varying gently rolling steppe. proportion of actemens atter from disappears from and funccio viddellie (?) dominates all mucht high slopes the plain east of the dis grand near grants. below all naquerque. The Rava beds with open serul, mally letifler, low ground along the river east of grants in broad valley cut in flat-lying has open topular frest. The leaves of the cottonwoods vary from bright gold & sandstone bedy Those have dull buff and from many pingen jurijer. trees they have pallen a dul soon again eastward. ned note is added by what West of Ris Ponerco are are probably gods of a tree wast plains to south of that I gail to identify grow track, almost shrubbers a distance. It has small, steppe. To noth of track yourselvery harging low rolling land steppe leaves, also. switte scattered juniper shrubs. Very little snow.

willow lands above albuquerque are langelly cultivated, clecked with high leves and irrigates, Julopulus fuert new river feathered trees near roads and houses elsewhere Kun snow, welted off in places. soil fine gray brown gullied simewhat away from river. Slopes at foot of terras scarp very gentle, when parts with open atriples

nov. 19 - Flight from Lanta Fe to Clovis, M. M. 12000' st. side of plane. Mainly plateau country, the first part covered langely by open forest, probably print or perhaps some pringon- juniper. He closed forest at all areas of very flat ground are bare or grassly. Eastward this great becomes sparser, areas of grass become larger and more prevalent. Exosional features are

interesting, frall remnests of mesa, amoeboid in shape, some sheletonized by headward erosin. This headward erosion is really a rather obvious process, as the cutting power of the water would be proportional to the slope down which it flowed. This can be applied a explain many ensional features. Perhips There is a limit of stockness beyond which the cutting power lessens. Toward Elwis the granland become the prevalent feature and trees become more and more restricted to escarpments and thegate slopes just above them. near Clovis trees disappear altogether. I mall ponds, probably dry during most of the year, are scattered rather abundantly over these plains. the topography also becomes rapidly less rugged and near Cloves theil is almost me relief.

Nov. 19 than flight from clovis n. m. o Fat With Texas. it side of plans East of Unis and large areas of low partially or entirely stabilized dunes. This under dillination, seems covered by a low very Un bush. In some of the more obvious of these areas the dunes are well stabilized exupt In localized shots of activity, which show for spots where water collects have trails radialing out from them. Here also there is a bit of end enoungetting started. Through this country, both in the durer and elsewhere, low spots are common without rulets. most of them do not have any water in them. feem quite librely that either gypnum deposition, silting or compaction by alternate cracking and incling will make

wilderness of thin brush and intricate dendritic quelly systems. In the center of Tris unoh. It would be of interest to examine this area flaistically and to compare it with the grassland that may have existed her before the gullying took place. It would be important to figure out the sources of the present flow and to compare its explosion expansion with the contraction of the prairie flore that it replaced. also it should be of interest to find if any components were equally at home under both of These contracting sets of conditions. The brush seems to be mesquite, nother closely spaced but not trucking in most places mostly almost bare at this season. tack of abilene the country becomes more heavily wooded but mobally

still with merquite, thrugh it is hand to tell from a brigh altitude. Inde become abundant but are mostly artificial. The country for a long way eastward from abilen is a much dissected plan, with much of the freat portion under cultivation most of the inequelar area lorsely woodled a in grass with scattered trees and bushes. The total relief is not much and the errsion remnants are flat-topped. rastward the trees change from decidences to very darli green evergreens. Cultivation becomes less and less common. Cattle trails are common. areas of active evosion are common and of fair size. Eastward a faily large meandering river crossed diagonally. The bluffs and mesas lining its meander on covered by open evergeen front. this and deciderous area east of it probably the iss Cross Timbers.

and houldwest of Pallast? large areas that see To be plowed up in gigartie funous as with a gold diedger. What is this? thinners says best time a visit Texas wif Dallas is april or august. last of Vallar - large areas of black soilintensively cultivated. are these black gotten soils" Decidences trees along some newiner. Dec. 7 - flight Washington - New york 4:15 c. m lift side of plane 7500" along in me of Washington a lighway parallel will it many patches of fun words I'm abundent both as substantial angular patches and as small groves scattered in the Heciderous woods. Northeast of Baltimor Howard Have de grace there is no fine! thrown a substantial part of the total area is world. a few pin patches, all angular with same

1958 7 exas. maryland

Southeast of FX. World

nov. 21 - Flight of worth to Weste.

24

pattern as nearly clearly related fields, then very little more ftreams noticeably entremelied, at least larger over, between form of grave and Philadelphia.

To Philadelphia and in new fersen between the sand in new york.

They york.

They to dewild anyord try blad to Prestivity, bertland - 1.45 & 20

of sid of plan. Un enomous area exit of devily, covered by subdivina developments with small house Extensive area of salt many inside and long. show bar esland with a steel outer continuous dun slope and narrow beach. The salt marsher are apparently developed on white rand and have mostly been losely litched with parallel ditches, exposing the sand Course takes mout to sen rather som, so we min most of hong sland. They trans back millions wer Long Island, then east along its south sid: There are still considerable

areas of word and swamp earlward, but very numerous subdiversa some salt mark along estuanes, Forest seems to be a varying misture of deciding trees and june. In the eastern part + or hypercal drowned coast line with many V shaped extuares, of show sand asland, bor Islands, er. The frest is in general much out by wads, usually on a restangular pattern. The offer long-show bas island on the east har an astonishingly straight and straighty cut outer want and of rather wide beach. The inner want is very megular and the sound is filled with patches of march and shifting sand island and bay. the island gradually Joins the mainland as the sound prinches out hen development out on the long peninsula to Thortank of but there is me and of her broken

cumulus clouds below with particularly ragged appearance on toto, like shredder cotton batting, a nother dirty gray ofference no high clouds close by, but & muth a vague alto stratu layer regular coastline in distance, details not clear because of cloud patcher. - Marthai Vinezard morthy obscured a curionis large lagon or notheast corner, surrender by a semismentar by. In in this Marthai Vinegard") "nantucket (") fairly large much open heath (1) land any words, an astonishing curved bayon wine side with a cupel evant worded dung (1) on east side and a large lagon were cut cliff on southeast come Cape God to north, not very Out to sea the about layer become entimous, more less level in to but will a cotton batting-like weighness and at more of less regular interval, rounded humps rising above this surfer which have a slight undefinite this not at all regular.

30 1953 furtyerland vosger and to summit of was a thin desty looking serne - transpaint for with morniain stilling up through it fouth of summit ridge of files and in its bigher walleys a bed of dense clouds. Tops of June dusted with snow, went of junch. Inoumar plentiful on moth side of mountains Intim of pero showing above clouds between jurch and genera langely worded, but some cleanings or mendows on tops, me bare gray differ of magnificent sign In the valley about half way from Junet t genera a small area of works, mostly conifers but paid decidences, is west by is. Other similar areas not - This east of Rhin !! High alps to soith mostly snow covered. no mow on western June, at least not visible from with oward geneva no on trees on woodled will in valley bottom, even in those on flat ground just a little sivil dusted over ground to walk of walls

Oman 31 genera & Rome The high Juna near genera hav extension meadownsand on their summits and alper sloperaround genera field are slightly green, some quite so. From a high altitude 6-7 mainranges of the jura are visible parallel, broken by the grips of the Rhone of Valley! all except the steepest land between genera and the ligher alfrs is cultivated a pastured. Steep slopes wooded Some hill tops powdered with me Passed Mont Blanc, protuding above the elouds, completely white another peak, almost as high just south of it. forthern party alps exposed great mon fields only differ free of more. Italian slopes with rather little snow thinky wooded in most parts. Visility fron.

Dec 11 Beint & Karachi mostly at might introfplan, crossed peningula of Trucial Oman at a just mostly of Trucial Sther. The west side is a wast

Johan

near the coast,

33

the mouth of the Dashi Rives is one of a cluster of stream mouths on the day west of Ras fivani The country is utterly desolate, but must have had rain just recently as the stream have water and each tras a plum of selt in the sea outside its mouth the peninsula oast of and culminating in Ras Juans has low rugged hills and consprenous eliffs back of a narrow. Tawny completely barren flat wasted plain

32 998 Oman

> plain of oriented dures, with spatches of Ploenis arabica between them here and there experially inland no other vegetation seen on the otherwise pale tawny plain. Well inland are extremely rugged mude mountains, a dull pale a deep valley in the galf drainage is a far sized vasis with Phoenix dastylipera, in the deep canyons on the east not water can be seen occasioned by, with a few mall waser In some of the steep ranine a bit of gray- queen vegetation can be seen. nothing on ridger of slopes. The wastal plain on this side is narrow, but her is a small oasis with a small town, very bleaklooking. This might be token but looks very small complie cated series of constra paddoche near but not invasion lases has other plants as well as thornix, but cant make out what they are few or no Phoenix arabico on this side of mountains a little out from the sast craft are lines of a young bloom festorning the ovail

They seems to be of cuspate Essast the cusps very prominent hooking eastward, but somewhat elevated and the tips may be truncate. Carachi- tidal flats west office mouth on cuch have apparently a low semi-open mangrove scul on me stable patches, base mud in other parts. fame east of river but above the month busher her mostly low gray ones, some taller neces ones (idal flats on court to east mostly bare. I last desert east of Karachi with inequelarly scallered darli gray freen small trees a large busher and more abundant smaller gray bushes. Enomous expanses of mostly vegetated tidal flat extending south in the rolus delta. colotroffis common locally m. 8 - of airfunt. Copparis! very emmon. areas of this low dry grass arrived airport. trigated field bright green. former I renderanthemum

39 India . East of this wast stretch of desolate mostly gray- brown gultivated land but into plots by walls with some trees a bushe atte Dwellings concentrated in dense willages and towns seathered through this area, each surrounded by a tract of overgrazed pasture land. Going to wah in the fields must take a very considerable amount of time. To the south then are some wet shots in this pattern, visible when the low sun luts them. This fundscape becomes slightly greener eastwarf and seems to develop a slight rolling relieb the ages of the undulations month & south. Trees many abundant here in the fasture areas, none in The cultivated areas except on the wills between plots and very few there Kine probably that running through ilmadebal The scarps of its navine same hattern of cultivated fields with walls

many lakes or reservous seen, enflerially in distance to south, a few along course hend of indges change To Mr. - she becomes a bit less rugged, much less wooded! an important stream or more winding southeastward and much flat cultivates land along it. Hills almost disappear. I whose the narbale R when it turns new Jubbiper. tills still along course but plains along river of south must be narbada, as it parallels course for some distance to south rake common in its plain. Horn getting bad, toward sunset visibility from Vegetation from eastward probably because of overgrayen ratherthan climate. Hillsdisappear along course and to south. away from wer country seems sparsely settled but still very fronly vegetated. then some scattered low bells with thing woods. Country gradually hilly in belts trending with south,

eastward to south branch of Lon River. after this too South for visibility.

Dec. 10 - Broughot to Djaharta notheast exact of malayomouth of a large meandering wer with meander patterns shroughout coastal plain. Largely a morain of nubber plantations execut plantations and areas of preddy frields some forest patcher would half of general area back from coast is in sich is various stages from green to home. tarthe inland a large areas of neethat are mostly green. also some inundates tand and swamp. Then mountains which are densely frested. many clouds, visibility from Crossed another broad valley with a rive running notheast, with considerable use, some subber (1), some wamp frest Then hills with dense freit. but occasional holes showing bill and mountains all thisky wooded mes

numerous steams. after a considerable distance another river with a reddish sandy bed, some vice in the news forested hills, very cloudy Then less clouds, a relief of small shills very intirect, solid uniform non frest. This wer a large area. after a considerable distance a large meandering river and valley system running southeast, much rubber and nice in the broad flat bottom This enters the sea with another roming from the west, and there are large swamp areas near the mouth. along the coast a spectacular sever of beach ridges and an old shore line of white sand back of a cultivated another meandering river of black water, and several black water lagrown and inlets in this cultivated sty. Coartal plain with white sand and series of old muddy

estuary a lagron, then much swamp, long-shore channels, some of in granland fandy beach. Evant trende slightly mer westward, The spea hore is very muddy and of a greenish hear soup who. a troad complicated wasted flain all along here, but visibility poor. The green color of the see is more and more conspicuous, almost a gran green. have never seen anything like this. Extende a long distance from shore, water obviously very shallow. Bottom visible as great parallel ridges a undulations. Could this be turtle grass? Tills the whole bight of the southern east coast. another large uner estuary with very complicated channels frankleling wast. approaching the again, very muddy, another large rive wouth, extremely muddy much use in its welly. South of it a large lake with many islands of swamp frest. Irong high island offshire applans grang a covered by drw simb except for trees away

show. Much cultivated land and a settlement on evastal plain. Vast from flat to rolling a low billy ground inland. a road culling through the forest, running about north mother west. forthward many cleaning in the finest, mostly grassy. from eleaning in progress. Then much rubber land with swamps along streams Rubber very green at this season ne area of hedge style planting of mobile. Many cleanings. Loil where expressed reems to be a white sand, at least in many places, They large billy fruited area, extending ulmbroker for a rast distance. Relief rather slight then many cleanings with lalang, large ralley almost all more or less eleared and in betula and many young nebber plantations The coast again, with a large river running into it, some cleaning in this valley. More of bearli ridges around a crescent shaped bay water

frea green. along south part of fray frest comes almost to beach, Black water streamer coming out of it with modely bay. Mixing conspicultur Plane made right angle turn westward wer flat frest land with some old cleanings Frest becomes very fine testured as we approved a great lagron or estuary, Plantation immediately arrung estuary, with roads Considerable mangrove swamps approaching Johne Strait and singapore sland. Complicated justeen of nubber plantation, belulias, gran frest swamp between estuary and strait, Much new rubber plantation. singapor Island - mostly mixture of houses and trees, great red sears. Water reserve front, some small the rubber plantations. Turned south organs angle islands to west cut by straits, mostly low and wooded. bouthward a mage of islands-ting ones tendots

be grassy with trees along she farger ones wooded but with degraded frienta believes and much kavanna June plantations and now cleanings. Channels and estuaries very complicated. Relief low billy relief. fouthward the islets become smaller and spaney surrounded by dark colored yelps. Kumalia in distance to west, a peninsula extending east and southerd about opposite this another group of small islande Uneven forest, trastly clearly at some time, more or less regrown partly rather offer some plantation (2), no bricker habitations Hangka and satellite islands fea very green in visinity. Islandslangely wooded but with many clearing lalang, savanny, belubar, inan inequelar morais, Mountainnes central and southern part still has some undisturbed forest, apparently somesmell

tin workingson south, side Large burned areas on south wast. a large roughly anular area of slea is a dull disty green colo, in contract to the blue-green around it. Bounded by a scalloped line of white - fram breakers? not at all clear what this is from 15000's forme patcher of bloom with of the Sumatra in distance. the above dull green water evidently merely a different water man. Here are three of different colors intersecting, not mixing readily. But these not outlined in white. More grass-green sea, becoming lighter and more pea-green southward. There green are probably merely ducty different depthis of water, but have a deller, more of pergue appearance than I'am accustomed to. foribly because of greater gift content of plantiton content. ty cloude partly cleared, some toals, plantations. approaching south funder

Lea very muddy, Coast low -Almost entire island under clouds. glimpser of interior show dense forlit, form cleared land along small stream, several houses, at cleanings buglit green, bestraps laling some paths visible Then more forest, vast areas. Little a no relief. Mortly abouty. Trest very mixed, some true lighter whered. Then a targe area of smooth campy with only few scattered emergents, then energent bearshe abundant, then close to form canopy. I few trees bare, a few in young Ame large rounded clear shots bright gran, near 9 black meandering stream. Somblash aren in green suggest that cleanings may be marsh former along this stream, withward, are diviously man-made leaving invariouslages of regrowth. also the forest betomes more often from patcher of forther y seur low, worder the local very light whole trees.

1958 Endonesia 50 Rice freelds arrund Dyaharts miles mille Cocas, will cocas, with Cocas, muse artremper, etc. telego like worked house, Village like worded islands in green vice.

1958 Java - Trip to Tyrbodos Dec. 16 - Between Tjravi and Tuger Tenaced rice, with bambos, bavanas, mingo, other tree crops, much Marihot, Carica, etc. The rice in all stages from planting to harvest. Replanted immediately. Many anamentals. Some Cyalliba and other will plants on navier wells above Tugu same pattern along wads. Tea plants trons on slopes. Little shade. Dark brown soil. 1-2 m. deep. Tea hought 1-1.5 m. Forest in toper of some to hills. Nice + willarge somples drops out very soon after tregu. Puntjak Pasa - 6 parts (K) tea plantations with very littleshad. Lone with a gray appearance because they are trimmed back very drasticely on other side of fram the to a hope out soon and is replaced by nice; mandet + good complex.

Tibodas From 4500 my a love montane nam forest trees widely spaced, canopy integular and rather open, emergents to at least 40 m altingia, Cartanopsis, No noticeable stratification bet show lave asplenium midus and other epighytes common, thin but continuous most cove. Undergrowth layer to 4-5 m. Pinanga Buhli, Calamus, Plectolomia, - very inegular beens and warrows helds. Photos 5 how, 3 knd. at 4850'. at 5000' large Vodocarpus imbricaria como in as emergents Versta demo rimosa Throughout this forest lianas are present but not in great abundance. at 5500 5 photos 400. Here tallest here perhaps 30-35 m.

61 release to pres 39663 Polypodium 1692m common, terrestrial, in open VI 64 Pratig montans mambling, flower occasional in low bushes purplish blue 65 Lacetrarum ? caespitors, inequally ascending upper common on open stony blades on plowering ground betow galls 66 Mertera culms reduced. 2 6 nerteng granadensis (4) Druce prostrate, firm. common on wells and flowers greenish yellow, fallentres trunks, in open. fruit translucent vermillion. 67 Parmelia bright green above, common on ground in then. white beneath. 68 Davallia very correccións. occasioned on pulley togs in open

Dec. 18 - Trup Bogon to Udjung Kulon by bus + boat. Rivund Bogo is a pattern of drongard garden cultivation and terraced rice. Lower down, toward Djakarta on flatter ground, are some small nibber plantations and even some pasture, but still mainly gardens and In the gardens are jall buit bambas, manilet, manys, peanent, sweet potato Ceila, Piperbothe, quara drece, Carica Phoenix daetylifera(1), tamarins, Muntingia, anasardium Ornamentals: acelypho amentacos. alocasia macronhiga Latropha curcas Carona hyp. Coleus of. Delonix regia Carsalpinia foulthering Dieffenbaching maculate Cathlemanthus Theretia perrorana thomps crecta Sambueus sg. Hobiseus teliaceus Officialia sepina allemanda Gendlisnii Coolianin managatum

Loucaeva glavea Jophynanthe, well refully conther candida Thurbergia erecta Tobernaementera comaria Hibiacus bybud. newm otlander Felicium? Samonea sarray Casuains wigainvilles my Redilanthus tithymaloide, Englishaylan cocq Clerodendum thomasac avenhoa bilimli Gerbera jamesonii + Tageter folidage of. Malvarrem Cupressus of Clumeria oblina Ilumeria ruba Caladium birder Polyxias scutellaria feindafous aneux Engthrina af. Chrysalidocarpus litercens Hymenozallis litteralis Hibiscus schizactulus Pisonia allo Envanta repens antigonon leptopus Johnsias quillogli lassiftena quadringalow Mangifing indies
Delenit legis
Octorarpus heterophyllere
Corpstones reging
Fieres benjaming
Muntingis calabana
Monetia peruvians
Tamerindus indiens
Unija sp.
Casuarine sp.
Casuarine sp.

along canal west of Djakarta

phornoed specta very common

fatropha grandificis occasions

(widespead in fava, au Kosterna)

Sesbania grandifica vec.

(fils. eaten, now Kosterna)

Panogarang- en morn market.

Sweitenia macrophylla

Cossia siagnea

Coors maifero

Herca traditionsis (small

plantations)

fantana camara and anaras comosas commo in hedgerous metroryton swamps. Hibisan macro phydlus Riccis cult. ber but by no me and as abundantly as in sprost places we have see. Cassava and willage where ground with vier. There some large open areas of vice.

Streams very muldy, fre nother rolling of en area. affrarently for sail. Longe uncultivated areas, with low serve some parts in rice and wolle. Lowbof Melastoma, tagraca Lantana, etc. Then almost solid rue, some metrosyten swamps. Leaves resed for thatile, trunks very little wed for starch (air. Kostermuns). Trunkr, reach 4 m. soils here (planosols?) darker hodnish gray when Throughout this part of Java the wer is treaded and the bougasts of

praniales and dried in the

rodolkily.

Serang-much more offer, lars crowded town their word. Farge tamains trees. The southward. Commits abundant. Mangres & actras. Some areas of the Imperata. Thickets with gleichtuig.

Volcano to right - stillbar

some patches of forest
on higher and rongher parts.

Parts of slopes grassy
with only scattered trees.

Turn westward.

Janden complete.

The typical complex of trees, gardens, houses, etc. from Bogn to Djakasta and to Pandeglang in dominated by manys jak-print and comment. at Pandeglang it changes and is a complex of comment. Behras and gnetum. This is the pattern to fabren where creas becomes dominant and along the coast from a pure stand (photos).

are cleared up to half on 2/2 of the way to top, the read of the way to top, the rest of the way. I have relatively under turbed frost.

Krakatay can be sely to the n.w. rather too for to distinguish surface features! and Krahatan is a perpect come, about like alamagan. Those bits of Old Krahatan to right. lone explosive activity from the sea (?) to right of base of ana K. columna burets either white or black every few minutes, vising higher than and K. another double come more to the right is not part of Krahatan group. Gestarned by low islands. these appearing practically undisturbed.

Dec. 19 - Pular Pentjang island fringe of hophora tomentosa to 3 (4) m, tall, asplaced here and they by Vitex y. and with a little fearvola. this fringe is backed by a wall of Caloppyllum inophyllum, with occasional Hernandia, etc. Trumeforting race in the fringe. The Calophyllum wall is several trees belt of Ficus and The species. Then a wide mixed frest. the soil is black, but lighter inward gets the mixed frest has trees to som. tall, the very large mes rather widely scattered, mostly buttiesed, and sizes more or less regularly graded down to about , inch in diameter. then very few sapling between this size and tha fort nestall. This stretches over a considerable flat.

The sort is so compact that water has evidently stood mit. The growindlager of seedlings is very sparse, admost no! lerbo

then an elevated terrace about 15 m. with a much thicken forest, generally smaller trees, whany more lianas. The flad here is far richer and there is a more noticeable ground layer, still largely of seedlings. Some Gerns, but these smostly on faller tree trunks, where there are characteristic commun ities of suddings and ferns. In one place a very large tree had fallen, brooking down several others, which in turn knocked down others, making a stoath well over 100 m. long. This limestone terrais is rather compacted or weathers and silted up, so there is some gully erosion and water trickling over impervious layers in the lottems of ravines.

at beginning of cliffs on west side is an eroded terrace probably 6' sorth curious rimmed basins, and a series of exposed beachnoch, enjoyed by removal of terrace 18 basses dipping landwar (holos bous, a hog.) Avnall islet was Pemphis on me and (photos) Beach beyond the terrace abovers of gravel, is obviously being out back, but there is a gravel ridge, in places very warre. The negetation here and just truck is a tall frest of large Barringtonia and wast this dominant but in sandy place there gray be calophyllum. l'andamis thickets here and there, V. tectorius I fragians seen once here, on willy material. Back of the top of the beach ridge the borest is largely Barringtons, but with considerable Hernandia and chiosia. Focally but abundantly a thick shrub to safting sized lower story

of ardisia and aglaig with occasional young Bazzingtonis. From thickets of landamis mixed with this. However, in most places one can walls freely. Tallen trees from the wast obstruction The ground is mostly pebbles and cobbles, in places manes of boulders. the beach ridge has cut off areas of low. lying ground that support a stand of Lumnitzen racemora growing to a height of 10-12 m., with abundant preumatophores. along the gravel ridge are scattered Pemplis and Townefortia trees, much less abundant than the Pandanus. Hibisaus tillerens is fairly common, the peria much less so. allophytus occasional to common. most of their species grow out over the water, making walning along the beach difficult.

very megular.

The sandy beach generally supports a good forest of Calophyllum, frontes by a fringe of toplane tomentors and Vitex, of Pandanus bythe toles Foundation Heliandia, whire, The gravelly beach ridge supports principally Hernandia & Barringtonia, with some Ochrosia. along the front are occasions bushes or small trees of Pemphis, allophyllus, quettale, Tournesportia, etc. no herbaceous growth except on sandy beacher where there has been elisturbance, where one sees Ipomoca per-capra, stachytarpheta jamaicene, Thotales, etc.

Dac 18 - Udjung Kulm Kerent across from Pulan Peutjang Island Breach ridge, back of which is a swamp of Mypa and Sonneration alba? Mygoa abundantly flowering. Buds are distinctly warm when pressed to cheels the tight of the leaflets bear long filaments, connected along the margins at first, then stiffly spreading The precuratophores of this sonnerating are more narrowly conico than those of S. caseolaris. Back of the Mypa swamp is a strip of nottan swamp, with vivios trees, bit an abundant understory of rattan. Back of this a gralm first, terenga, Oncosperma, etc. along a small steen Back of this two large clearing, with gras, various secondary weed and showle species and scattered trees. In me frasting was a herd of 9-10 bantang. In the other, 4 samban deer orde herd of 7

1958 Jara Dec. 19 - Cape Lagar edge of frest back of beach 39701 Leea sambuilfolia! should sis m. tall. common in lendergrows fruit immeture wound 02 Cordig myssa L. small tree about 8-10 common sincleared m. tall; fruits dull gentinous said of wadway. be used for glue 03 Pyritosia lanceolata leaves thathery fleshy. common tree trunks 04 Hedystis albido-punitata (men) 708 ? prostrate; corolly white, corhonor in grassy clearly salverform but with area, grazed by wild sen. globose lube; scarcely any ods when broken! open areas on works above sea shore prostrate, trailing: flowers bright mayents-purple. Tuftes; spillelets pale green. or promove litterales Bl. occasional 06 Cyperus local in rock crevery 07 Phyllanthus 12 local in well eravices and weedy places. 08 tachaemun muticum ? prostrate, panieles 1-2very common in grassy of Justicia grazed by wild strey. erect should to I m. tall; local just back of flowers very nave dull 10 Cyperus byllingin whitish. heads white local in weeds places,

Dec. 19 - Pulm Handenbeum Pemphis acidula good stand on small eval gravel. feedlings on gravel beneath. quettandy specios Hibiscustiliaceus Therpesia populnia Resmodium umfallatum Dumaria Pyrong Cassytha filiformis trinim andisin (humilis?) Centang camang agratio Premna obtusifolis Westeria biflia Wavallia solida acrostichum aureum Crycas circinalis andanus tectorius Deris tifreigh para (or Povetta) Fleg sambuerfolis mangifere indice Fire gibbora Mephrolepis hirantules Hedystis bifling Macaranga lanenino Bridelia tomentosa? 15 uchanania floribunda glochidion

Cerba pentandra Leucaina glaving annona muricata Psidium guayava Musa Sapilntum Carring propaya Reperomen pelucida acolypha indica I teris Good cretico? anana comozus ageratum congraide Sporobolus diander ? Eragnostis amabilis Piper aduneum Rescharum spontaneum mounda citripolis Scarola serice Fimbristylis cymra Eupatorium good geneling Lolanthus sp. Enphorbig hista Chrysopogon aciculatus Stackytupheta jamaicensis Ficus septica Vademacheng gigantes Hernandia Blumen balsamen ? Lindrobium Obennia halbenopois amabili Capacion Futercan

90 1958 Jang told The Dec. 19 Tendong Kalund 39719 Desmos cochenchinensis 2 20 Cudranis jaranica reincleared game pasture 2 21 Fimbristylis cymose Top of sandy Beach, ofen. Dec. 19 Pulan Handenleum low coral islet.

22 Smythoa? minghis forest

local, tim Pemphis forest

an amall gravel just inside beach 3 23 Comphis acidula dominant in frest of inside beach flat just 2 14 thurses small patches a femplies breet not far from bead, 12 25 Blumea scrub on very thin soil h 74 Bridelia occasional in frest 3 of glochidin common in frest and fruit edges.

climber, flowers yellow, turning green: leaves beneath slightly glavicour beneath lastiferous dapressed shrul, sterile Divarfer from from parties. It was fel densely caespitiss.

portrate vine, sterilo.

5 mi (al); grayish groen; flowers white.

thin mat; ploriperous culms erect. herb 2 m. Tall, very armatic; heads yellow.

shower 3 m. tall; Coaves slightly glamour fenerths, sterily.

small tree; fruit green, seeds red.

92 1958 Jung shoule; fruit immature. 3978 Kimenia americana L menonter beach in fruit 3 24 Digitaria common around dwelling 12 30 Digitaria common around dwelling 31 Digitaria common around dwelling flower purple. 3 32 Taxes palmata in strade flower purplish. puiting 1 33 Emilia sonchipolia place around divelling shoul 2 m. tall, 6 34 / xora 35 Desmodium umbellatum flowers white trup fruit black should to 3-4 mitall, very common in undergrowth flower white, fugactors. caving menting spoly. 1 36 (alga) parasition Tarca parmaty leaves Dec. 22 - Pasinputih thick bittle flower white; 37 agiceras consculata price stand on basaltic fruit immature. dochs covered by salt water at high and medium tides. scandent; flowers white. v 39 (tamys. ?.) on bassitie rocks well above out tide level dull yellowish white. 34 (aseles) on basaltic rocky well above high tide hight getter fading redledy flower 40 Hibracus Wincers

Dec vo - Krakatan Holcano Kralsatan J. Verleten J. Lang J. (leber) in background) (photos) The three older Krahatan Islands are arranged like many and indeed would be very much like it except That Krakatay itself is so much higher. anale Krahatay is in a state of continuous pulsating activity, with an explosion every few minutes, Throwing ash to considerable beights. There is a large crater and smooth ash slopes, dark trown in color down to low wave cut cliffes, except at me end where The slope ends at beach level, apparently some ciral delris tras been cast up has as the toy of the beach is light wheel. Hero a small patch of Carrannas have reached tree size. a few are scattered but only 3 a 4 in number. The three outer islands are well wooded except on the steepest cliffs, which are mostly green

but locally empletely bare. The material of these, where expressed, is very light colored and bedded. The bedding is in places irregular probably because of slumping. The forest on Krahaten is luxuriant to the top. Casuaring is an impolant component mostly in patches. Terminalia cataphy is perhaps the most important in terms of area, covering However there are a good many species and the boest is generally a dense mixed frest. no grass now except on the steel inner wall.

Dec. 21 - Kestry Hoger - Bandung 40015 the work Bendung rice -Certified and strong v notted and ungopping ists soil. Elsewhere borned and use inexposated. Here are conspicuous areas of coconeils with understory of baranas. then large very flat area extinely devoted to rice. Limestone out crops. Old and reefs. Either an Id lake bed or inland see. Linestone mts. almost completely deforested. Veg. of ferecaena and faccharum spontanorum, etc. Infestation of Onyclas or coconuts at Polchalarango w. of Dandery.

Bandwag- Surredang.
Farge plain old lake bed
surrounded by mountains,
all in rice, except around villages.
Where road goes thavugh mountains
is a deep winding garge
with traces of governt on its
walls.
6 hm. beyond Jirmalabea photos of rice landscape of limiter
Farther on are roanges of limiters
wells and peaks. The lower slope
of there are covered by planted teals

forest. Teals said to have been introduced \$ 1000 years ago. Bandof swietowia marrighylly planted with teals for fix control. acaces aurientospun blanted on very degraded soils. Their works in linestone region are called marl soil. Namula Hilly - very steep and rugged limestones, entirely defrenested, covered by Imperator which is not very luxuriant Tyinebon Plain - secondary regetation of generous, and waite shits is largely bambos. East of Tyrelon along the coast Borassus appears. Inthis plain mostly wee is cultivated but some sugar cano. Near conox, waste effet drawnated by ferealra glavica, but these are few waste apots. Roads lined with Tamarindus, mostly more of loss pollarded. a few lom. The operation atheans along roadside. Large areas of tradely land fallow and grazed by water buffals. Som theing plowly and plented. about gebangilin Onyder damage to coconate consciousms.

98 no Holo Vas 7 low lying proof drained flate back of coast dominates by sedger when fallow. Many regetables cultivated here. tact of legal are plantings of festania gravliftora. Los. fed tegoals, flowers to people. affort 50 km. w. of Kendel ment we like starts a region of loss hills with well grown took SHEET STREET, plantations, some being ce. Rivged a year earlier to bell Trees. Amall Metroxylon surent banilos in waste spots. Orystes damage at Kendal. East of Semarang the country is hilly, clearly, with scattered comments. a few secondary thickets, grass, scarcely any in. Enstward nice gradually 7 appears apparently water is controlling facts. marilit planted where not amongh water for nieg. I eastward and southwar a number of volcanous and scattered about the landscape teak, a some are actine. Elean-felled form

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Wurung, but Probalinggo , gending Limesthis bluff overlooking sea degraded sunt of Operation Kantana, atropping go syprifolia, Fines, Welia. and a dry grass, porsibly Eulalia. instrumed along coast toward Passificatiles the bamboo around the villages become very scarce at Pasingutils the sand of the beach is almost black with an admistur of white coral sand. The rochs coming down and forming the front aret in grey fillow basalts, apparently a thick flow. The sufface weather darker than The normal color of the well. undergrowthy here. Nec. 23 Pasinputih fine climase frest on Jasalt slope - Schleichera, albigia lebehivite, Homelin Tromentosum, Lehoutenia, Flacourtin Unavia, Lantana, grayphus, etc. trees rather scattered, should taye Continuous. Lanting dominant in shout legge,

Part of it less dognaded with more or less continuous layer Herculia frotida, plus those mentioned a love. (Driest region in Java nain less than 10 00 mm, in a wat reason of 2/2 ms.) Here the undergrowth is thich almost Many of the trees lose their leaves during dry season. Linky Schleiders & choutening and garuga retain leavy. Undergrowth completely deciduous, herbacens grant disappeare. fort thin and black andesitie-basalt "outope generally old flow. I The more wooded part is in a valley Dec. 23 Pasisputil to Baloeran at asembogus photos of oxent horse cont, stone etc. West of here a large flat area has been cleared and plowed for large scale cotton planting. feathered & azadurachia Treis left, barning a sort of savanna lands taps.

from sombereiger a dry sloping javanna very welly, said to be august Certainly looks that way. This is lower stope of Balveran volcano. Commenced tree Schleichers oleva. Teak plantation below road above road when it circles mountain in a more closed, langley Then frest. Shallow dark hown to blackish soil. leale plantations almost all young some very young. Interplanted with Louranny, occasionally acasis of rabics. Kinall or foot stopes of rolcans, very gentle slope, very vodry. lamarindus planted along was. i non end of surfaced road the vegetation is mostly more or less natural, except for orrasional small plantings of Leucaena. Mus deucaena is coffeed and grows up, to clumps of thin wands, as thick as a thumb and 3-4 m. tall. few leaves, clumps of fruits.

108 1958 Jara 39792 Spondias mombre in ravine galleng frest in ravine 33 morinda 54 Viter common occusional 55 zizyplus 56 Hiracorea common, twining in shubs 57 Vernonia commin of engrassland 58 Emphonora nare in open burnel grassless 59 Buchnery rare in ofen burned grasslan 60 Morinda common 61 grewing occasional Dec 25 - Woronejo, north of brase of Baloeran Volcano Dry thickets in savanna 62 morinda ammon 13 abritism indicum (L.) Sweet det. common under trees in Frygell 64 grewing common is on small hill with anderson

110 1998 Jang craches in soil up to several con wide and at bast 1-m. della. In ravines and low spots a tangled gallery frest (Rhotos bowless finds 5 n 6 on roll 4, ind, Cassia fictila) On slopes a soused ravany with drawing lever fellows, Phythanthus emblica, Caris fistula, Banking of azelinated inding, of (half dozen photos h. o & +w.) Photos of cracked ground and grassland on it) around trees and clump of trees in cavany 4 139 h tend to be concentration of shrubs, mostly scanded and semi-acendent (photo) 1.13 1 I hotor from lookoux. Behol. The should men together to form a tangled layer about i m ligh where the trees are close enough to form an open front. This in most places is langely Lantona camana, which is deciduous here. vs Dec. 25 Wongsorejo ,39766 acorus calarmes to small clients along stream

112 1958 Bali

Dec. 25 - gelimanuk (Rrady The Birds) drak looking port, lunded on beach down a plant from ferry. azediracht, Hibisam tiliacenz Lanea grandis (more is los along road for 2-3 lem. us a striking open Then Lense thicket or tangled scrub forest, especially on the right On left some mangrover. Raining very hard. The Wharring has grass beneath, no shrubs. Laid to be burned twice a year. Spacing between savanna and open frest

thotos (bow 78-38) of typical tangled word growth Sandscope of North Bali. Law several white Starlings, This is game reserve.

Junong Langgang (gods M) is a spectacular dissected volcans.

The country after the game reserve is denothed cultivated, mostly in many a kapok & many.

4700

114 1953 Bali 115 Dec. 24 Badugul, on Lake 4200 39770 Drymain weally erect. on cut bank of volcanis soil near building flowers purplish pink 71 milia sonchifolis (6.7DC. story lake wall just 72 Ficus amartiace in parvifolis (one) comes wordy climber reaching high in trees, fruit, 4700 commontane rain fruit on rily depressed globose, deep orange spotted with white, turning soft and deep maron 1440m on becoming fully no. forver parts, even when fruiting, appressed to tre, parts high in tree with larger leaves and spreading brancher, also fruiting (not whates). tree; plowers whitish. 73 adinandra growing in montane front showb & m. tall (reaching 3 m.) 74 Lambueus flowers white (no yellow very common in open places glande in inflorescents), in along trail flat a roundist topped cymes. Old inflorenceive purple setting very bew fruits, they immaline. beneath. 75 Michelia () gluna beneath. 76 Hadriden astronia tree; inflorence and flowers fines. occasional in wet prost or vidge scandent shoul, 77 Rubus flowers white. common along trailin wetforest

1958 Bali Podocarpus Barrain 116 medinilla, many leticaces, Espates seems moderately wet. with epiplinter from, many ferry orchid Hotel Kintamandi Kubus molelecensis un undergrowth, with very tiday and Bater lake-Batur conspicuous lacinist but, abong The Fafates with long perfect blue inflrences Photos of Kehan temple. and very flooling translucent prestere not seen but hospilly I hotos of agung Holgano and rike pung Hoch of Buti Most of these slopes, even the highest, except those almost vertical are covered by coffee Photos of Elephant Cave (brw.) bottling place, archeological matrix plantation with overstory of Crythring of home native plants in navines. mostly Bali frigs are a strange C. nobusta, said to be some heed, elongate, with a deep say in their back C. analica and a fotbelly; black finganadja to Cenulisan Pass and junto in color. . Climbed through complex of Bili cattle forth much Evenuts, fruit trees, rise terraces like the wild banteny, to over +500, replaced by were females red, males coffee plantation with Engthing dark, blackish, all with at about 4000 there start to be the conspicuous white small frams. at perhaps patch on the backs of the 9110'7 here me nommants legs, only the variability of native frest, plus in the holms suggesting plantations of Casuring, any hybrid ancestry: tome have Cupressus macreaps banteng him, other slightly suggest Widdungtonia. This area

Dec 27 - Sibang Photos of marketand village temple 1st 10-11 on vol a sod.

Jangeh- Lacred forest of

Diptercarpus lascellis

Proming silvestris (photos from hos

Trees more or less uniformly about

40 m. bay doh varies from 25 cm.

to 100 cm. trunks smatch for

10 - 20 sm. Cismin a saplings.

10 - 20 sm. Pismin a saplings.

Some fairly layer 1 - 2 m

me varied comp.

Epiphytes in canopy.

Gay monkeys around temples.

Eded, Wonersley fruit around

Evid ground on N. 9.)

Village complex - Cores, average, aread, and perfect free freit Carba, Carira, Manihot Eugenie currini Plumenia

gulingan terrele - to selle sedenticul

Villag - weed walls, vig etc. Salch temple (thod. 8-10 beginning

altacked by Dryctes, area not. Covers more darraged than arenge. The palms comming seen are covers muita, area cathern, less commonly, yalaka edulis tilless commonly, tall fan palm.

Housesgenerally walled with mud or masony walls. The of much walls protected by thatching shudwalls made of large stocks cut from earth. Cows hefit in special small bambos shelters. give washed twice a day. l'igs abundant, me of. most important exports, second only to coffee. Pigs exported alive in cylindial bamboo enges. Lent as ger as Hongking and singapore.

Betiveen Denpasan and haven Pierria grandis var alba is common. Not seen elsewhere in Bali.

122 1958 Bali 39787 Psycholica common in undergrowth in 88 Paretta common in undergrowth in 89 Welastona occasional around edges of 1 90 Hedyotis beflera (L) on steps of temple 2919 Dipterocapus trineras herettis common is undergrowth as seedlings. Dec. 27 - Julian 7 comple 92 mollings of temple occashonal # 93 Dentella serpyllifolis 1 94 Kimenigamericana L insearly regulation Dec 78. Denpasar & gilimasuch Generally the area near Gillimanula is scarcely Kilse Mili. Scattered trouses, few villages, no up, almost nother, some seend growth, ferce was of Emphoris newfolis, maize

shoul; flower white;
fruit range when ribe.
shouls in tall; flowers
white fruit immatine.
should in tall flowers
deep rose purple.

These scedlings, with hairy stipules, mixed with and intergrading with those with glabrow stipules.

forming very flat mat; glowers dult white.

print yellow, sour, with pron flavor, but flesh unusually think.

The most important coop.

Small development of

mangrave (seen nowless

gives of Brassus (photos).

Plach sand beach at Gilimins

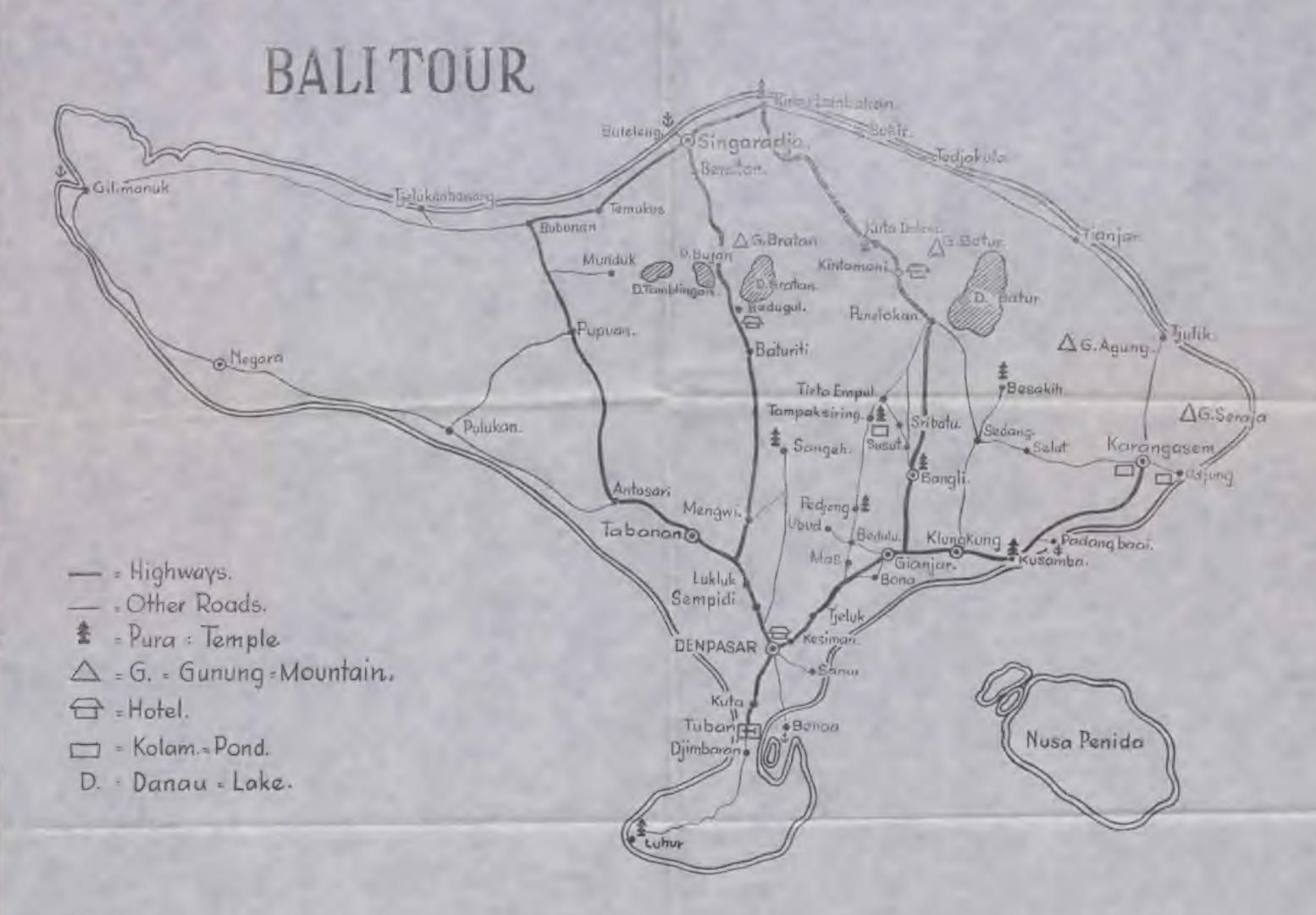
part magnetite, part suries?).

trees bete. Villages. 1849 95m. O. of Djember an area of old Rarst topography, much win down. teritican Dember-Profestrings coffee sterag. Ou reals on to bills nemendous dissorted volcano- Round to right. nowh of turnadyong a great migation canal bettween diles level of water wed above that of nice freels, ground the appearance of Xanthosome sagittata much the commonest tensite real around in para. Evidence of a serious flood just south of Djaters Tollow caral toward Lemen Volcars, highert not in Java. Lamongan on V. on right. Land to be later or maners in small cont went on side of Lamonga. Much sugar and rice label bed, now golden on riche of great canal. rather high grown thirth

128 1958 Java mostly many, little a no nice. Park reldiel town soil great volcoure boulders in stream, bed, Scattered clumps and rows of bamboo. Kree orgain at reties. Streams in This enter region very mighty There has your toen a very hard roing. Probolinggo- Midien Wast of Phobolinggo a few Mm. a low coast with clump of a very low landaming in otherwise bare med flats. fish traps in shallow muddy water. Dec 29 Madin to Prensesherto madein line very high, very morting. Me of told a large one of rolling bills with teals frest plantation in various stage some fallow land. Teal leave howested and taken to market for use as wappers. Thornoes carnos very common along roads and is

fence was

130 is not prevented. River grassy and in place. exceedingly mully. Gadly Endel. Lower slope forwards with and rolest eight some secondary woods. and vite plus village Brobudy Stupe of lid conflex. dates from 77800 - restored on village complex (M Wangon) but original stones and images used 304 images Bumbor of kuldha a missing taken to lian Hilliaceur teleaceur by thuldoughour. (Many glotter) represent region - most densely populated area in Javo Anla 1400 per sq. km. Village complex offlas to occupy into prud menanyo than vice fields. Some vice raised a four inche above terophylley fund west of have a dow Transfortageing tills -Ohr few moles a right is a the minding almost completely defrected, except In a few trift of their in Herea plantation former slopes in country mostly. Dec 30 Purvolente to Bogon. to Bes with teak plantation. 1 1 4 4 MED A nym grazing permitted in tark 9001 plantations, and erosion



TOURS.

- From Bali-Hotel to Lukluk (temple), Baturiti and Bedugul (p.m. 12.00 above sea level) on lake Bratan, apportunity for swimming. Back to Bali-Hotel, Duration 4 hours.
- 5 5 B From Bali-Hotel to Sangeh (Holy Forest temple and monkeys) then to Mengwi (temple) and back to Bali-Hotel Duration 3 hours.
- 5 5 C. From Ball-Hotel to Bona to see Ketchak (Monkey dance). Tickets obtainable at Ball-Tour. Duration 3 hours.
- From Bali-Hotel by way of Kedewetan and Ubud (centre of painting) to Bedulu (Elephant's Cave). Then to Tampaksiring Excursion to Ganuag Kawi on foot to see the old monastery and King Tombs. Then to the Holy Spring near Tirta Empul and from there back to Bali-Hotel by way of Mas (wood carving) and Tjeluk (silverwork). Duration 5 hours.
- S S E From Bali-Hotel to Tjelok (silverworks) Gianjar, Bangli (Pura Kehen) Penelokan (beautiful view on Take Batur) and Kintamani (1500 m above sex level). After lunch at Kintamani Hotel back to Bali-Hotel. Duration 7 hours.
- From Bali-Hotel to Tjeluk (silverworks). Mas (wood carvings). Bedulu (Elephant's Cave), Tampaksiring: Excursion to Gunung Kawi (old monastery, King Tomb) on foot. By way of Schatu, Susut. Bangli (Para Keben) Penelokan (beantiful view of Lake Batur and volcano of Batur) to Kintamani (1500 m above sea level.) After pienic lunch at Kintamani Hotel back to Bali-Hotel. Duration 7 hours.
- From Bali-Hotel by way of Tjeluk (silverworks), and Gianjar to Klungkung (Kertagosa, old courtroom). Then by way of Bukit Djambul with heautiful view on the valley of Klungkung and the island of Nusa Penida, to Besakih (Great temple, mother temple of Bali). Then by way of Rendang and Selat to Tirta Gangga (opportunity for swimming) picnic lunch taken from Bali-Hotel). After lunch to Udjung (water palace of Radja Karangasem and via Kusambe (Goa lawah, Bats Cave), Klungkung back to Bali-Hotel. Duration 9 hours.
- S S H From Bali-Hotel to Sanur (sea bath at Sanur, Swiming and opportunity to visit Mr. Le Mayeur, painter). Duration 3 hours.
- SSJ From Bali-Hotel by way of Sempidi and Kapal, Mengwi, the by way Kediri to Tanahlot (temple on a rock in sea) Back to Bali-Hotel. Duration 4 hours.
- SSN From Bali-Hotel to Kuta Beach Djaja, Kuta to visit the painter Agus Djaya. There is a nice beach in opportunity for swimming. Duration 3 hours.

limesterne well, mostly grazed a few villages and banana maige culture Thon werest of they, the tells continue in trasture, small cultivates patones thinkets, vier in novinos willage complex some degrades frest on highest stay stopes gut some very nteep areas bone. Linke teals plantations again, westernd limited areas westward some tim-Road gradually gets out of it to south, hunning parallel & it through low rolling hills in teal, much grazed. Then about Marching a largover of billage complex and rice. Colonat plentation or lower slopes then extension flooded of hills cored by maintage fields red soil, then another large flooded onea wear Wandregor, the week maller On both sides of Tarehmeloy sa mosair of vier fields

and small rounded hill with tree, mostly every bambos, etc dwellings + undergrowth, some other sent weed area. Returneyes landscape, gradefully the proportion of rear become less that of help more, it will fuse and then these is a free where predominently report landwich with some nige her and there. oward farest the country is shountainou not carrie, with spectarioles rice terraies below, shifting agriculture on higher strep slope, fittle frest left but theelist In navlue. arenga common. Many to les slowering, Pres not appleas & be tomore monocuper + at bout has a number of axillour inflorences at truce male below. How es lyngthis contling in in mot elede, but kretermany ray indefinitely, Many dead, but no correlation Some plowering ball was down trush. The

1919 australia 7.7. 1959 Java 139 138 Jan. 5 - Bogn Tiogney Jan. 9 Darwin - Drenching rain, said is have been Lite of proposed addition graining from monday tel they, to the bolome gaden. Rolling hills with Mursday. the area around I amin rather deep dark trown soil, welcaris astrigin is green then forest of nather arhalt trees, mostly bushite Duly wines with In town a typical tropical water and woods or assortment of anamentals. thickers of bamboo, allamanda Extractics or handerson mircellaneous trees. Calophyllum inophyllum The brigh ground is Polysia Ticochliatous terneed, serve in marchet 1. quilfoyler some in gran, minore, Delonis reges etc. daid to be former Pacaderantlemum canutheris nubbon estate. I whope Polyscia fruturosa en filipliat 200 m. alt. a more. 70d aunt (olyscia frimata? angual work about Mussaenda portosa vel eff. Bogn Theretin fremorana Love comment trees. Plumeria ruba Col seeds of a Poinsettin tiens of in Alesses 1 antigonon leptopine green of tell in soil. Lawsonia incrimis some young rubbes Brigainvillea spectabilis some view, som savanas Catharanthus roseus acalypha amentarea vara. a. hispida fatropha podagracia mephinolepis of synamium of. Scindafisus aveus Eighorbig pulcherring hansevering rosburghing marihot exculenta varigated on

1999 australia northern Territory 143 142 Caesalfinis pulchering (yellow) Coso muespera acalypha marginala: Clitica terrates Clumeria oftersa gringuelis indies Tamalundus, indicus Lamerer camer Muss sp. Jan. 7 - Darwin, n. 7. shrub 2 m. tall samulis; 39799 (Myst) flowers whiting among mangroves on well substratum covered by high lide yellowish green should Exocarpus latifolia I mitell, righest fruit Inthickets just back of bear turning dull range, receptacle swollan. heads lavender blue 01 Boneria abundant inopen pourt flowers with limb white, or Stackbourin? Tube yellow. common in open frest. flower yellow, almost 03 Carria? or quite actionsophic. common in open goest Jan. 9 - alice thrings, n. 7. protecte leaves pale beneath. 04 Greehavia - small trifts, culma 05 Engrostis almost erect.

Gustralia 144 1959 145 to adelaile - Dr-a, left sid. to redded substratum caring it somewhat 7.37 Running hand sea very Country generally rolling, rough, about 25 lines of greener, mostly savanne, Consderable mangione times my the highest areas reddish. some large fonds looks blackish, with dead or leaflers of Parwir in a swall bay. theer growing in them. There also as small extrany systems trees really not leafler the of the air field and g but somewhat so. large one south of Durwin Hells more prominent with filled with mangroves. Clouds cleaned away, from 7.30 open forest, ravines grassy a small aca along a muddy forme brigher brills to left stream. For hills tranking in smiddle distance they closer, inequelarly well parallel to stream - wooded, locally densely so. Bare ground 7.45 wooded, some savanna, fute green, on slopes away along bottom lands, becoming from coursecut). Then flatter grasty further south. Traces savanna locally redding of old channels, represented locally green, with many by strings of fonds. Some bas sgots. Then complex meandering streams. They slightly rougher country sem-open country- best with this savanna, locally areas in grass, stightly green. Then doubs. elevated parts savanna to fame, but more hilly, saming open boart locally. Ponds, mostly thinner, - me for friend evolubly ophoned, very Geally Clouds muddy, sbundant. The 757 Kelling, green sarams country flatters out me and or this open forest. grass and savanna are 158 aband of low strike ridges more general with gallery trendily back and left frest along streams. Ponde las from course, guing wide common. The grassy areas ex shallow sife, this work green but the savanna is the and almost no grada. steppe saving with the

146 1459 australia Then hills with din new ground cove. Country almost with showing locally flat. Clouds. Roch a dull note trous color. fame but even sparse and drier; shallow revines meandering Ephroachery Kotherene, mostly through stightly rolling cloudy. This open forest, some land: Clouds bright red cultivated fields. 9:11 thenner fruit, mostly savanna, Chin savanna around a resert savanna ford rel. Kathern air strip. forme apparently desert gransland or this show levert will areas quite green. areas of patcher of dense dans very rocky platean, abparently over- grazeday green sent or freet. wind eroded, with this View not adequate clouds. l'atchwork of sandy devet, savanna. Shrubby regetition denserie ravines and in savanna and firest. the network of joint cracks cloud Free area with open frest becoming more predominant but visibility frest and grasey patches, yes varying to savania. Galley freet along river. fail very What appear to be several red where listurber. Munerous large dry lakes, surrounder epheners (?) pools. Rocky ground ty an univer stretch of open steppe-freet. Patcher of Conical territoria frominent Urin grass a shrut savane, and abundant locally. Ephedre of another large dry lake Viving a few bodachiones along dis sparse shribby vegetation. strip at Katherine - open forest Carirer very pale destrition 9:43 Left Kitherine Extensive open for drainage pattern leading a mother dry take farther Chin grass ground cover soly welly shots. to left. Lake gray and area commediately 9:46 grass winder trees themmes, soil ref. clouds. adjacent is bright ned: shrub desert. Road across Unia savanna Clouds. lette is white. Red part is 8:57 Thin frest & savanny almost ne

148 1959 australia 149 apparently deline from slope, dence savanna- like very low. Several round but still desert, deathered fite with water around small yellow-green trees. edges of late. For side of 1111 force very thin least- great, lake hora sondy strip. substructure a lighter red. stightly more grassy as Evidently the red sand from The side scarcely blows out alice things is approached. 18:14 Lory would still redge cuto the lake bed, but there are at about 70 left of will. very small durer a file of whit sand in the lake bed. Then a more vegetation in depression. 10:15 Between them. Its Shallow considerable strip of sonal ripple-like drines! Lake dendrity gully system 9:59 with more vegetation. becomes were vegetated, mor 10:16 fore small flat topped predominantly duke, still very Then somewhat the shortly schauted from the red area, both of these vegetation, but inequaler with somewhat of a patchwork of vegetation, a a dark south totally. Then locally shink - savara possibly due to man, but 19 lough patches of dway soul very difficult to explain. 10:30 Crosion remands delle Then some rolling lighter bownish red. fallong sent along dendrite red land with abundant gully system mosais pools of muddy water. of several steffe-savanny Gen an inegular peterdestant court grandens. of red and pale gray areas, some with open regetation settlement of a few dayen house. others with almost nothing. Dale scrip and many Clouds. red errsin remnante 10:07 a red desert with usegular noth of air stop, area small poteties of denser vege. cylindus territoria abundado tation apparently approaching in freenopen sent and alingfrang Tenhantereck! show savanna around field 1009 Vegetation becoming somewhat

150 1759 australia melia azederach a. mahaenta 151 Jest of Lamania welleaty planter also sens lighter old rose frink areas with small ed to hear, alworks lemm yellow cremble patches of paler rand, som dull greenish red areas. Some of the boundaries On the flat-topped red erroin remnants and here are regular enough to have been fencer - possibly few suragely Free 2 mill trees, the they tweelypton, dis pattern may be and in slopes a gray low in part due to degrets of 10:57 Left Tennant Spr. overgrazing. Very low broad strike ridges 11:15 transverse of come, with Savanna with Tridens? ravines more or less perforclumber-cinecular, dead incenter dientarly dissecting them, and Kew gray-green acacia? very shallow, with sent Their morais of pratiles of savanna with desert, very sed. in bottoms, little regetation on higher parts 11:00 Then rather ever resert -11:17 with negetation in a Low rolling terrain redlish, desert savanna, patcher somewhat viented "ipple" morain of spatishing dark pattern, possibly smell fixed dunes with bare sed soil serub and the fram freed between them. I while of even orbibarently collects sand. allrelds Then desert gransland interspered l'atches of serut scancer, 11:21 with ripple rattern, antire mostly drin desert granland. Elongate somewhat meandering elightly more velief. Ravines depressing was vegetiled with negliation. more scrub patcher. mosain of red and stightly green arm, gallery sunt 11 x5 Patches of almost bar med in navines, arem of simple sand (Vor hard soil. sembolered Patches of green 1196 Following a stream-by along bottom land of min with galley sent and stream paralleling course. a flood plain of almost bare Will horne very bright red areas

152 1959 australia light red sort. Rather dense thrub desert with patches desert grassland on flat tenne I liste spots on The red on both sides; to right of this that may be prospect holes. a range of low hells, probably a strile ridge with very Then shore orlers continuous red should devel, locally sparse vegetation except in rather dense. ravines. 11:43 Large area of blad desert 1120 pregular mosary of new grass with shrubby petelos, of direct navanny, desert gradually changing to grussland, and almost var areas, with meandering eteppe. stream bottom-land with areas with slight relief denser grass, still thin. should desert, flat areas, apparently lake bed, steppe. 1130 Shout savanny. stilled. thrubby areas may be 1121 Harge awar of desert graveland with errold higher shots. small sand dunes, perhaps sand collected by bushes. denser vegetation in ravine, the lake bed is extensive. Trees reattered along larger ne at other side of it long and along stream bels. dune ridge with concentric This has all the appearance bands of shrube (hodachime) of a formerly badly very age steppe. Ringes bare and range, abandoned long enough for cattle trails to disappear. red except for stepper should. 11:35 Small low sedimentary stelly mostly gone, dure slateau or left, thin years, trattern complex " no assurance ramines radiating down sides that there are dures). with suns. scattered darls low mountain 1137 low erosin romants with maria, covered by open south removed. Then shallow or sout desert, box med conflicated directionfans and flats between sparsedesert grassland. then with only southered and eroded have area. ehrubs, perhaps small thez. Shallow vegetated ravines. Flying at bou alt, very rough 1 by Somewhat greater selief.

156 939 australia 157 var bowled devert, very Main (Photo) About vegetation getting small blue bills with acriples + forme small sparse and somewhat dringer of darker large arranged in ever grandly hills " Whuch geology with the duner perhaps showing of the were stabilized dures on more littly the bottom of The only lime to interpret it. defressions between then ighot Large area of almost box no my dunes - a flat red desel with only a free name desert plain with very is the serie of thight ned namon citle visible vegetation. practically none rough almost straight marallel along faint watercourses dunes, parallel with women tandicape not very red 4 662 interripted by hill but still continue on flat areas any more. more parallel tunes on otherwise Their stretch into the fran trung landrup Cittle vegetation distance when they become except seathered should along atriples (1) plate closes at the drawe ridger, bewer between hand in desert savanna. 1111 Tecome anastornoring network (not Varlais. Die Dunes change from red to prol strikingly red against being 257 Tomas dunes but is want of altigles savanna 15) No so anastomosed nime (hold pale plain with struct no vegetation except strings 154 almost no lune or mostly of trees is should along dig stabilize and hand to see desert. duttercourse lumdenost a pute is bare as leve, pal built in who 155 scattered small proses forgally splotched with semmant hell with sulfus seller tops about a slight dul juntish frage parallel times at nsomoth, her more bout a ut 7 ingle backers granalle dune, this time one course on a told plain bet a slight angle toward con Featheres shows between lunes eyons or a vay shoulderent

1959 australia 158 mobably must be take lyn Dunes have become redder my flats with white and close together and much Grades ground between - catelles. Crossed meandering stream them almost sovered Very little vegetation. course with stretcher of worder a vact dry white lake 1500 7.40 tune anastomore and bed. I wash sparse for lose their parallel alignment egitation of small bushes secone a vaque inequela a Carry margins but sea of dunes. forme vegetation, bet itselfcrossed a broad braides serie of twater-course 312 Jeny odd streatry loudy intered by vegetation. of white dust evidently being a frond plain colored like the criven across lake bed more frainted desert my vegetation of less transversally to come (bod) except in the tree dry the white flat is probably 315 watercourse, (hod) by most absolute desir 350 Crossed a troad white dry on the face of the earth. not watercours with a few a right wistle regetation, lines of vegetation. Cer island orters of stightly Then more pointed levent (or a peninsula) of slightly higher very bright he matite colo. turny land the move sall. a tributary watercriphet was 19 Stritery alongthe west will prominent lines of vegetile Abore Town little restation dark weer small trees their Carron lake in a great series another. They with of outending small laker This does not goin The man to the west, one crossed et 150 but flowe ind of main body of take full another and mother make melle the detachet Jands, all white axiding, some Compremos vegetation to the labe proper I few in the town course of 300 there before they carne out into dune and small but To the white sell (?) flate of when

1959 australia 160 161 regulation mostly plain. red, wither worded watercours mostly under cultivation Charles Per entering southerd. Therwood now except a stry of patche varying from the wanna & a turny vegetationless plaingallengets The fort rlong Then from along left of course, matercourse, taumy place Instightly bully ground. Menny, bittly uguy I me full green, some plowed, I vegetation some yellow how. a series of beautiful strike Large tohn. More savanny 427 and other freet, even some udges consicourse a horse shall mather closed fried on low bells. harspir shaped series in tripsyl med in distance. frattered patches of steppe savanna and more strike redges, there more vegetates than others, strugh apparently steppe order parture close by otherwise then tilly land with day farming. valley, frest insome mesmall Range of very low trell roulghty paralleling come 14 thele ridge from a very mainly steppe and stelly ravaning. I lat understandably as ridges ground all farmed 707 Firms her have virall sumte intersect, Fairaneary "wordlots" n. patches of open ofen from or lowe slipesgreat otherwise all cultivated Scattered cultivated field Very flat country in their grassland, a few 5.11 another town in middle distance fratcher of freet and savenes to left. The time woodlots seem 17 Same dry farming of fetter a be the rule here. Various sign areas, musteppe and steppe but all small various densities gavanina or low hills but mostly ofen fred. but a couple of pratches of or distance & left a billy dense obviously planted freet partly wooded region and green navine bottoms. atom below, ugablime for in front of patcher dark jungter

1959 australia 164 3000 all buy show are considerable Jan. 10 - Tribby air adelaids to sall marsher, of strikingly Melbourne. Dof. 7:00 pm. it side black tolor, with slight Very low coatlie, mostly darly green development of sand beach, a few very low mangrove (avicening only eliffs to s. c. of city. acc. Winesley). Fow hills in peninsula east around head of bay are of city covered with savanna, extensive from flat area, replaced northward by yen trecters, possibly partured, frest as higher clopes with numerous desiccating are reached towall reserve foods, white, apparently with s. e. of city. Some sloper serub. sembly and dry farmer covered. Pattern of distribution of forests and open land areas, Interspersed with suggests cleaning by dry farming areas are trong man, at least in many pasture, then serule, and dense sembstracts of very Kolling country, mostly 3:06 considerable estent, cleared, with scattered mostly on somewhat trees. Thuch of it an apparent hilly is wough ground. in pasture, some cultivated. Verhaps some of this is forest Trees essentially about from gather than server but brotally not here on, except a few along 324 kn distance toward court water courses and naverer, and are extensing worded tracts, ina few areas of oppositely infact, by forthe larger part welly soil where there are of the land is in food foil ecattered small trees and inthis region generally bale some often send. Fills mostly group to whost white. dry farmed, now brown, or Mosain of dry forming. where sent covered, black. pastures and seine or freet, thate alexandring) in barry large pratches 3:13 appraching bay- some continues along course. sports of white sou have Freder characterized open serut, or some sum by surl-parallel undulating hidges to be desireating pools along

1959 Rustralia 166 167 That may be duner, but 350 nhell. not meessaily if so mostly 353 unother band of cultivated very well stabilizes by land, dry burbared, but vegetation. Large unboker area this with irregular cross In several places the cover bands of frest and hundrede has been diturbed and the of youth, some of them dunes have become action again white others gray a greenish. area of spixed barcans, This band very broad. with the serul, rather Much pasture with restlan than thechanter of fourt. trees. Open galley word along meandering rentering Cartially as cleared land. loud. with numerous moting elingate state remaining Large patches of fract, seron in parallel alignment along (parties), and cultivated course for some distance. ground. Frest on wunder Toleft of plane vast hill, very dense, dull dark wooded mer Inmeddle distance dry farming about so continue, Jan 11 Melbourne - Street and parts manutile 344 most curious crown Eucatypter sp. Tristanis? " tramen, sent area with lines, somewhat wary, granallel machina promisera! genesta sp. but numerous and close trilanthus altissimus to stogether as though combed. Then my nerum on. Cestrum (~10) black density wooder hills 3:43 holed cultivates landand abelia grandifles Jacaranda ovaligatio? parture. & In places restlered Platamis hyp. tree. Amegathe of word a sevening and Cytisus scoparins 347 Thena broad board of Betula alba ingular & great or sunty sent Fiers framila These board of run at Helianthus annus. about is to I could, forward to be

168 1959 australia Soll Jan 10 - adelaide, d. q. 39804 Sprengelia? tofty marshy place 07 (deg.) commin whent layer in Eucalyptus oblique forest Jan. 11 Melbourne (exp.) Cratalgus sp. ampelopsis of agapenthus & Liquetum vulgar Gueras sp. I witherthy looks felinus molle much lenbecking of. Coprosing barreri: aboutiles pictum Washingtones filifers Vernica (Hebs) of. Choraga temata? Bellis perennis Thoenix canonini uchning magellinis? Hydranges helve drummonding Prunus (pagraner red land.) dolantings Phlox panieulates? Mr-forum crasifolium! Tiloruching elargonun Impatien sulters

170proceens draw! a slove with green acculus para ? grassand open forest, then Gensely wooded rounded ginlego bilolos hills, the forest on Hedeig sp. Fatsis japoning ? ridges very fine textured, that in ravines course querius sp. textured a few cultivates Chrillea nobusta cleanings in tops of Elangium? actividis!? plateaux. This frest ganda ?? fl. white, fr. neworks Lymphoricayor quite extensive. Brachydistor, leterophyllum 3:49 and of freet - now complex Leptospermin ?? hilly country with Kinns pinastes wooded raviner and Ilumbago auriculata steel slopes, otherwise Chamaerops? grany with scattered tiens of. trees, the grass mostly dry some small valley Cardenes? (artichole ?) common bottoms green. 352 in open fields and vacant narrow green flat valley bottom with kinky meandring stream with narrow gallery frest, an-11 - Welloune - Coma , lande many traces of old beds 239 left mellours and meanders. Thostly dry to faintly a considerable density wooded green moracis of harvested range a bit to right. grain fields and pasture 354 another imall valley land with abundant with meandering stream scattered trees, trees most and incredible series of in partines - typical save old meanders for such " varying locally almost to hilly country. Then sydenson open frest dry hills with sparsely Dis Reservoire and then surround scattered trees. by stry of dense broad, the

Eildon Reservoir, a very clearly valley in mountains 357 complex drowned valley to right. in a mostly mondes a high very rocky massif. range of low mountains with neahr and ridgest nother ams of reservoir tare granite, ravines! in savanna covered hilly and joint cracks worded. also lower slopes. Laid 9 country. Tremandous cumulist 3:01 Morthern tip of reservoir He much snow in writes and large string resort Then rather level to slights seen in tot of me of peales. rolling land, saranna, Large villey system 3:15 a few howested gransfills with much cleared land, grass mostly dry. mountains, between well 3:09 morain of dense freet, open 3:17-18 worded. They another forest, sandring and cultivated lower mountain man, land. form of grass is green. solidly worded. 3:07 Vast densely world are, 3:17 Very large reserve a few small cleared patchen fren to left (Hume Res. ?) quite mountains. Pry Cleared valleyon it. plain to left of course. They want wooded Rather rugged mountain mountain and, with to right. Whitelp clavel and Garmed a pastured land notial appears to be one freak and a trigly platery in a few of the valleys. above timber-line in The words on the mounted restance to right Motor outer, stopes are slightly ofren, typically mountain meadow strwing some grownd, as far as can be made in placed to completely closely out from distance teveral the smaller pealer 5:11 famo vast to wooded also slightly bal on tops. area on right, dry plain 3:23 forme high ridges apparently but with a few wooded have soul or west side, valley stretching into distant dence brest of dark brownish on left, there valley seem color on east a matheria to be the extensions of many

australia 177 tilly ares. sides. Ranges of low hills with by low worded hills. Canbers. open frest, grassy valley between. 420 meandering stream with Jan 12 - Canhena - Lydney clear water winding through left side of plane bills, they crossing into 425 left tanbeira. valley and joining river. 127 Stretch of rather tall open In other side of walley, freet, other similar to right, an extension woods gratches, otherwise savanno area of low hills. with enounce amounts yreen fields on river flats. of dead timber-possible Home serious quelying on from fine some stretche sides of valley, but stream with all trees dead, forme is not muddy, at least now. rather bad evering. Patches Hills covered by savanna, of open fruit are angular look badly overgrazed. suggesting that the dead Hilly country, parsais of trees may be from cleaning ofen frest, savanna ind speration, rather than fire nergy aged grass, some nearly Large lake a recevou closed fruit on rougher areas. with rather muddy water, 4.75 Fairly brigh wooded mountain very thin grass on flats fants left, a rodry rugged along sheer, no tree except sparsely wooded range on where hills or cliffes right, becomes less ringges come down to shore. Then flots of gran, with and more densely wordled a we follow it. patches of savanna and Valley below pasture and field gullies partially navanna. Budly gullied. 431 Hillswith very degrades worded grain very freet and savanna. then twowness green 473 gassy valley with many a write of large fronds. tren gran with patches small ditipicial ponde. They I forest and savanna, som Esterint rowanny arrang

australia 178 1757 of the forest rather deuse, of Lydney Flats and Reshales some as plented. tills around tydney very In middle listance to left green. - My this seems & considerable forest on low be other constal town not Kydney Beautiful corcent fame close by course. Then shaped beachementhy name a large canyon out strip of dunes believed them through a rough poserted Eusped want, but curps aren - nother or system of not all pointing same deel carryons almost usolating a worder plateau. High exament another frait of this woodel gust back of coast. area has a very old pattern Behind Un of plateay on plateau - titre a lave flow mostly freeted, a little of pendinectes, densely more thinky worded. Tollow the man engan worded, several reserving for a distance them at crosses course at point when in canyons. form parts very thinly I is joined by an intracte worded, a new covered tributary system. This whole complex area well much have not exposed worked and presumably deveral subdivision a difficult of acres would make an excellent reserve honning areas on this platens, back of a very complicated surrounded by ween coast and apparently tydney trastures and frelds! 哲リア itself. Virestly back of Wooded complex and ende Lydney is more or less 449 another long similar men open country with winding in middle distance to left = river a estuangettemades grand worse, promote your that vereribed above - 20 inteny over tydney. Much frest close to city and of wite, neutral This one someworks The samong sububs. area is evidently just buch form swamp fourd on estuary.

gossyfrum tomentoses still persists for a few hundred yards along the road and somewhat into the frest. It askers attains a height of two meters, and is definitely wordy. The flower open wide in the morning (about 8 n m.), have & justicle coherent stigmas, somethe fent to me side The plants are mostly bookly infected by smel mealy belogs tended by tiny ants, and the most heavily infected plans aredying back from the Tips. also some of the prants seem to have morardisens which maker the leaves become

MISSOURI BOTANICAL GARDEN

"SHAW'S GARDEN"

2315 TOWER GROVE AVENUE ST. LOUIS 10, MISSOURI PROSPECT 5-5567

February 9, 1959

Dr. F. R. Fosberg Pacific Vegetation Project % National Research Council Washington 25, D. C.

Dear Ray:

Thanks very much for the Poinsettia seed. They are both the angular, coarsely tuberculate seed of P. heterophylla. As you note, the pedicels do elongate and straighten as the fruit mature. This gives the capsule a relatively clear shot for its explosive dehiscence. I am very glad to get the seeds, though I'm not sure that I'll try to grow a Poinsettia garden this summer. I want to spend at least a month in Mexico, collecting over in the west, and by the time I return from Montreal, the summer will be nearly gone.

I have been somewhat side-tracked lately, but I do intend to write up my poinsettia data one of these days.

With best regards.

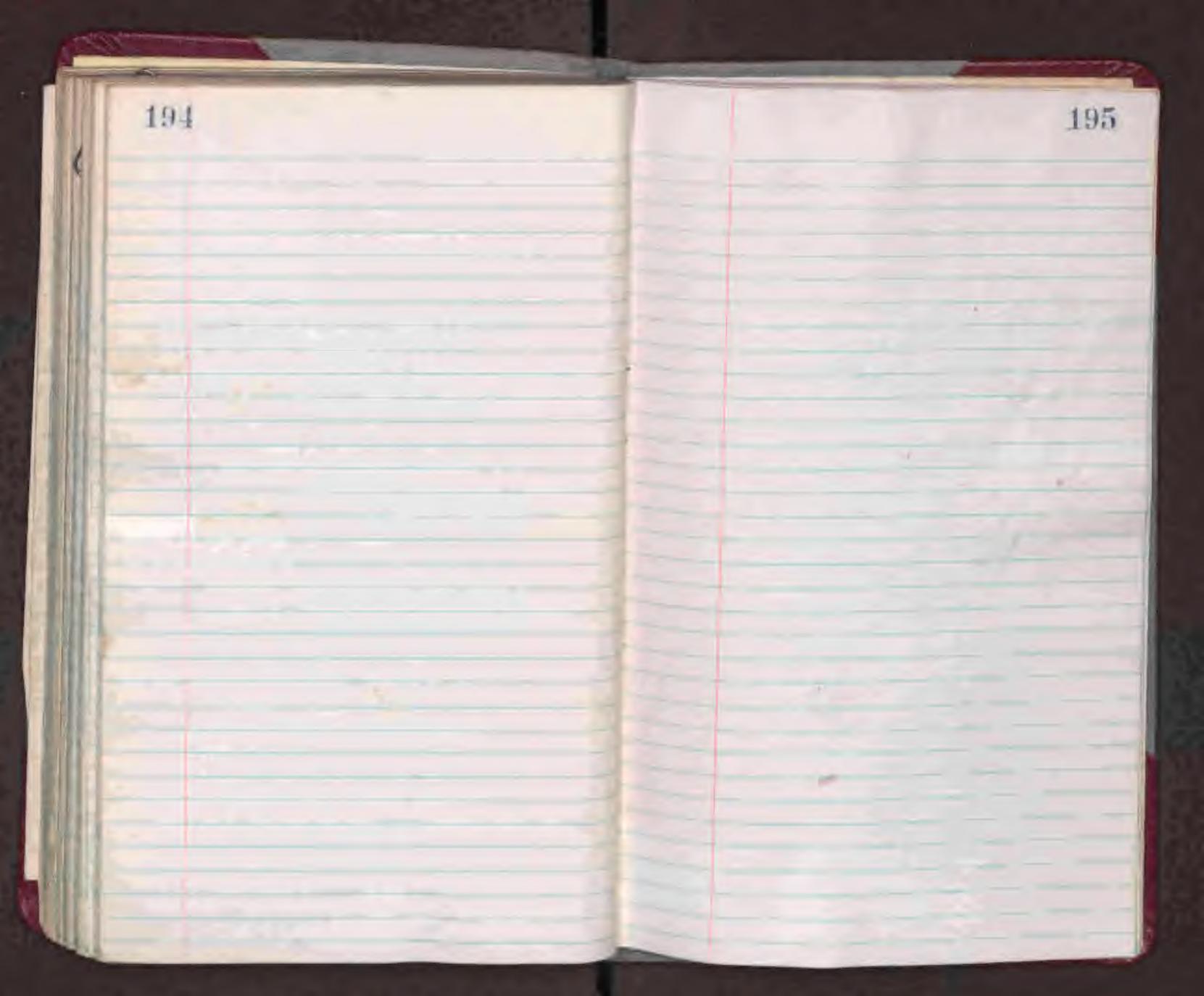
Sincerely,

California 1959 182 183 Jun. 20 - Flight san Francisco logged only well up in to Chicago, left side offler. the mountains are Cart of hills back of areas of closed conferous Oahland is a very considerate frest, they varying areathatis not cut up locally to open fruit and for real estate. There are chapdral. Open stopes gracy partured hills, with reathered trees fair areas of arternising more and more common californica, some invaded upward. a little restlers by tiees, and some good snow in the love ofen gratches of low open a close frest more in the closed forest. Roads make much fact, upper morain of of this quite accessible closed freet, ofen found, East of this, my Diable and open slopes deeply is more nigged and rocky snow-covered. more apparently bras some and more ofen more true chapairal, some and welry vidges and frest, and much welry slopes upivard, tell country steep grassland, as well is essentially bare with as some gentler grany patches of open front valley much bare rock. stopes Valleys filled with fog. snow not especially San Jodgium mostly covered treasing some high granite by fry, a few shots ofen. domes and ridges with footbulls of fierras covered almost none. by God, my to the top of largest Eastern slopes have almost chapanal areas. I non that mornow. on is very largely a my amid habe to north, some normin of large areas of frest south and a little spen frest with smaller west of it, with considerable areas of chaparral, the anow. Otherwise, along boundaries of these of the come with and southers not stray, that valley of lake very little more, large sottoms cleared form a war gentle slopes of rage bush,

184 scallered jumpers ?? of regetation holding small on side of rannes during tunnels on frams arend it. Very walry and canyons. hilly or low ordountains then considerable areas east of them, with scattery of rather dissected stopes and town mountains juniples (1). Then broad valley. the upper parts of which are covered by open conferous dark areas outerspying from fan delvis overig frest, a savanna, of low by scattered whitish yes to Trees, low stopes des sage that must be prospect hole. bush, I more alluveal slightly bully land, fans wered by rage trus. then another enormous There wills with open port valley with great fan, 450 and savanny Then what an V shapef air field seems to be desert with but no town at all on this only very sparse regitation, ride of course. Large stufes quite dissected, variously of transversally arranged not even the low mountains duny. Very little regetation showing any visible vegievident in all this country tation from this altitude. except in amorther from 755 Several dry laker with share sage trust. broad allustial fans teder correct protuding down to them on the fran though alluvium. with of dry lake newest then bere low mountains. course what appear to be and alturing filly old partially stabilized valleys, direction not varians, born fronting very sharp. Rugged northwestward. U trighway brigh mountains fran 4 ewster this fram. They duny evould be writh investigating Wide valley some patches on the ground. another small dry take " less of dune. for mountain, with scattery 1010 immediately to left of course. trees, much trighter and woodef with what appear to be clump a nostly.

188 1959 01.9 189 everyeer. monedicately eastward some decidence, very disserted land, pettern complex but loss spectamen ICEL then some frietly spectacular 10:45 (smorth a large ralley. erroin again. Vegetation along course and alread very sprange in rougher very mountainers that some junipers a eventry with pately of pinyon, Wide bar desert plain. grow conferous frest, some a viory, forme clouding Then clouds. barner a similar glain, more so alread. Deep desert valley with no visible vegetation, ground 1243 a small flowing nives mostly reddish 107 crossed a large rives with and to math, a small tour a little water and a two, surrounded by much dry bed, this conspicuously hey mountains some white Tributaries also very coloque, mostly with white bede " enhaps he virgit med ended montan Eastward the bare well to month. plane rather inequal. 1849 foreid clouds. Then clouds. 1041 4 cultivates valley with a smel 134 Clouds thinned out. closely meandering stream Land is enterely under Then more clouds. cultivation except for 1654 Morais of words and numerous dendritie gully open ground, much show system which ar sparrely 10:56 a wide valley with t densely wooded very steel walls and 10 a pers small woodlots rather directly frotting a fairly large city on a out into redomination almost southeastward running no occeptation. meandering vives. 10158 of extander errin, many no snow at all in this Early butter, annyme statille whole fratchwork oreg. away of moth. a thick Lang mendering niver red bed with yellow above becoming almost granallel with and below. Eastward anno Then worth It. Very.

1848 W.G. Trus ? 190 143 9 little snow in navener mar leaving very complicated snow wentle facts north. dry meandes patterns as 1:49 gullyong more intricat agricultural lands and lovering more ground, but Bottom lands of larger streams or river wooded not very fresh. Bather little level ungullies land, Jullie, Meandering conspicuous 3:07 Though, not much wooded crossed Mississiffi K. and generally cultivated Very conflicated system of channels and relands, Tallery frest along river and steams. adam's north perobably seconing more snowy one below wuris, also 190 ground civered with then lenow. 303 ferie of parallel low ridge rugining east from river. Consprenous gallery forests 209 What seems to be an old along rivers to north, glowing extremely flat bottomlind eastward. 146 Somevery complicated meander with bluffy, but with no river course, running patterna in a wide prozen wer, southeast. May have coming course toward's, se. been ar ancient lake bed then yently rolling to prography Completely cultivated showing ancient dendritis Very flat land east fit Jullying. Even small streams completely but rather mostly slightly incised, lightly meandering Uninly snow covered. 139 Wride frozen iner, unning generally southward. It was Interflueres of tributary systems howing very gentle relief. Tibratary systems dendritie. man stream wooded the we better a second land mystly trecters except around farmhouse. Amall incised steamy have been mostly chandleyed



PAGE 29 1

Tomato Bake

agredients are well blend. Wakes & servings.

will and mirror it creamy. Frid to spoked macaroni Cook & nuners athree ms. one the cops rubed control recomi in boiling satisf was take into a pressed casor for about 10 minutes govern Neet account alay-Scalin and rings, Combine or of A trief tonaite halven the copy mak, I'd cups sell over the manifold And reweath cruerbs, % teasphon assisting marstral mistare. all, I tempoon Worcestee. Top with the other 4 toreshire sauce, J C. taklespouss to halves Cover entire top offered mustard and I cap while bread cremins. Hake in whed American cheese on a a moderate oven 1375 day attenpant. Heat girowly until over F i for 25 minutes.

U SPRAY

LLER

PAGE 45

with Isle Hobbyists

Hikers Discover Varied Plants

usually rich in variety of dom seen elsewhere, accordplant life, not only of native | ing in Thomas R. L. Mcplants but also in the large Guire, veteran forester. number of plants introduced These are a few of the here.

and bike last Sunday had op-Walfield:

ragion, that is, it was found nale clubhouse. newhere also in the world when first identified by the belanist, Dr. Joseph Rock.

It is named Solanim enterianum, after Hawaii's second Governor, George R. Cartae.

BHRUR SPREADS

In the years since it has heen reported spreading to Paris. Watabole and Watkane, the Iwo valleys acjoining Was-

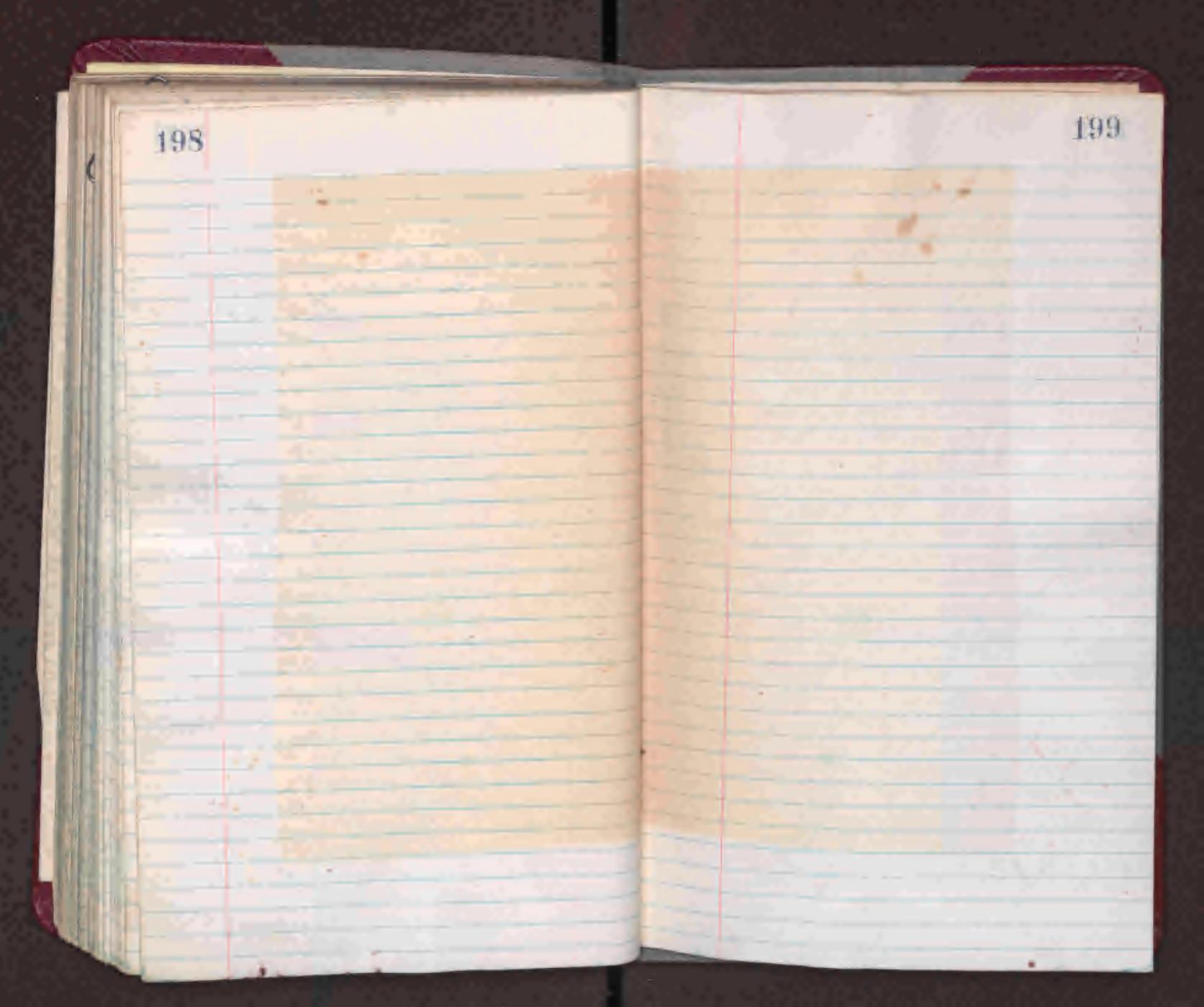
By HARRY A. WHITTEN | Also is Walanu is the The Hawaiian forest is un- white strawberry guava, sel-

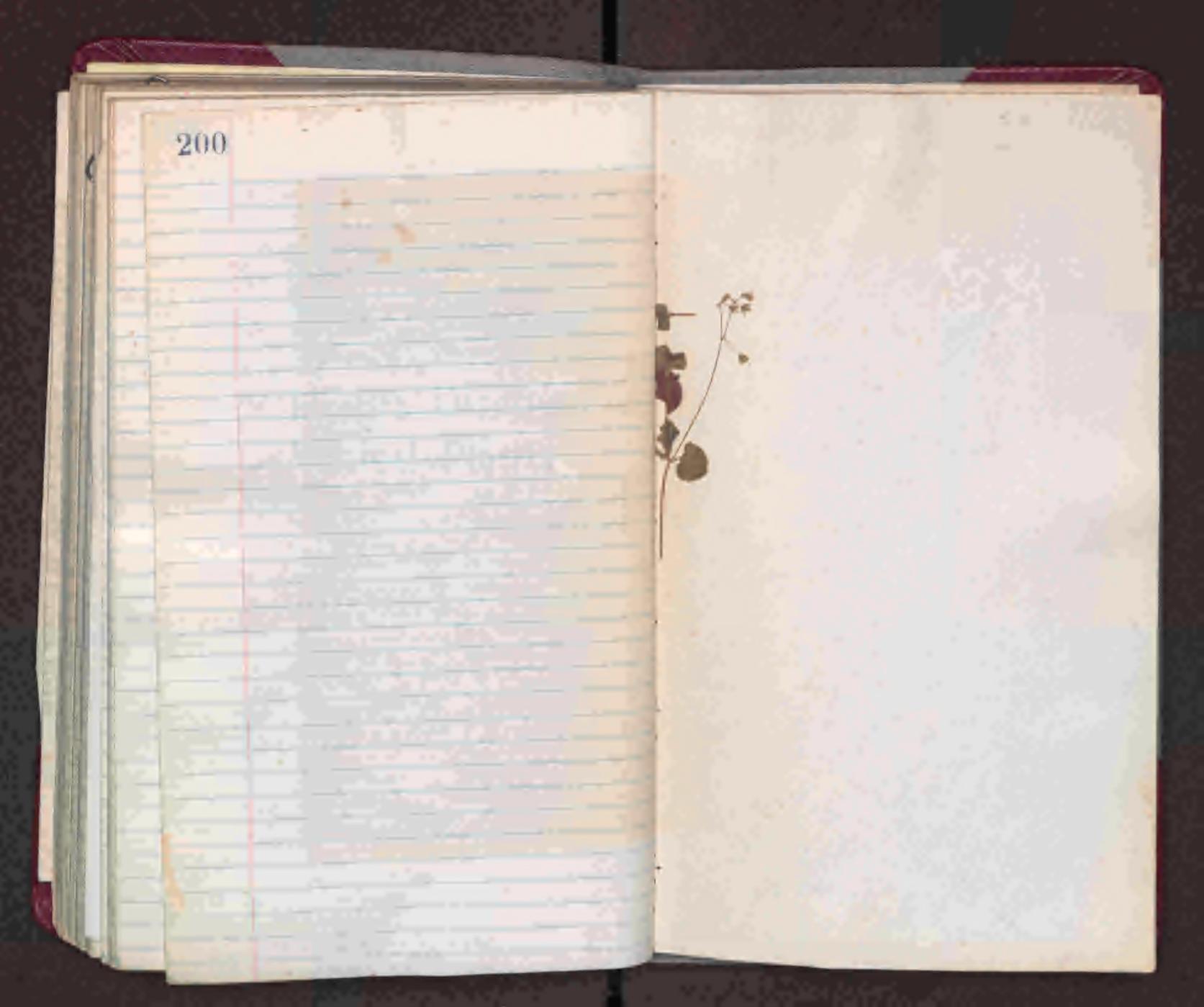
examples of plants to be Those who lack the Wai- found along one Oahu trail.

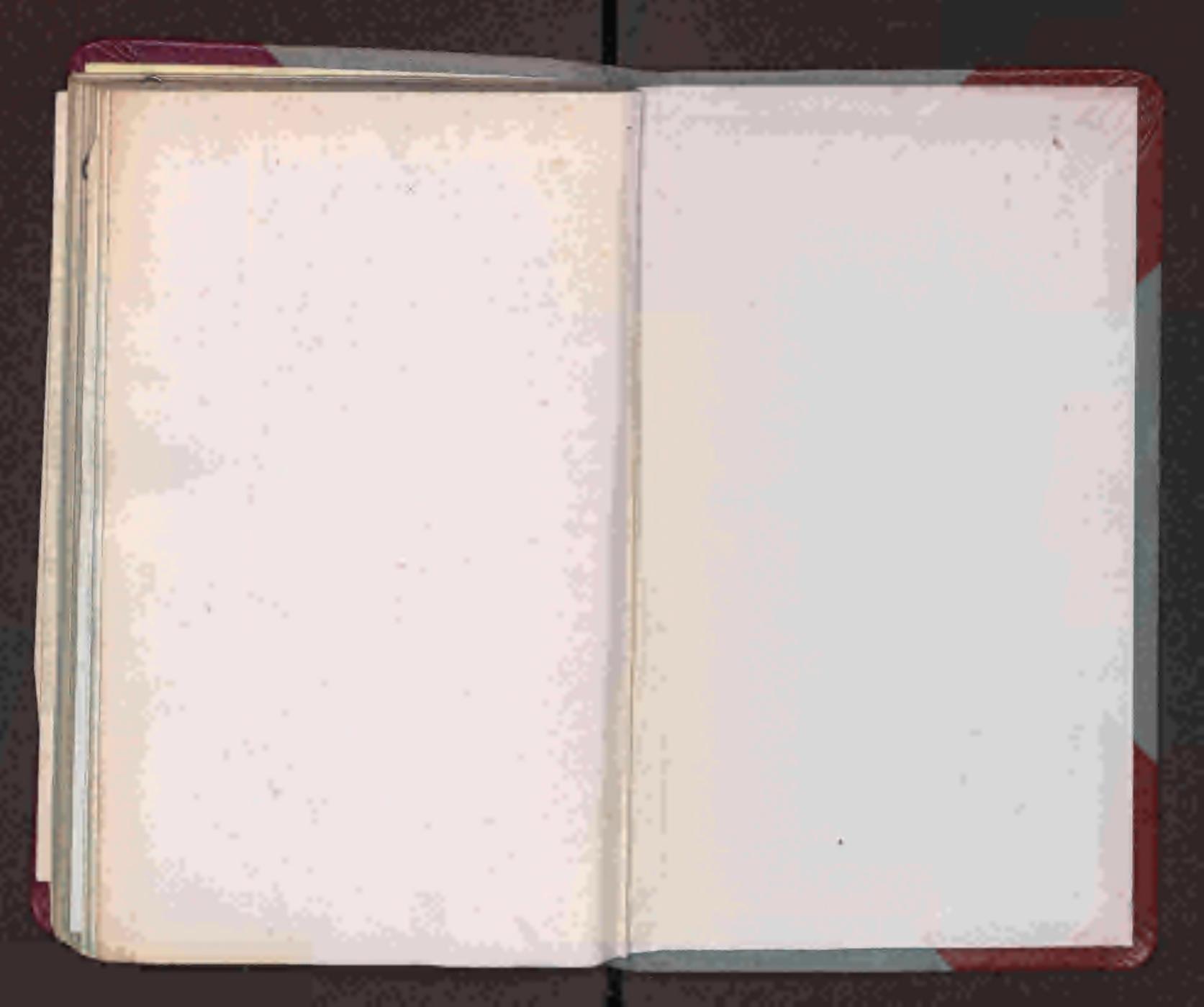
The Hawaiian Trail and portunity to observe the Mountain Club has no hike this coming Sunday, as There is a shrub in War- members are having their and that is endemir to this anough head at their Waima-

R. J. Baker, kammains photographer and president of the club in years past, but returned from a trip to Europe that included 27 days in the Soviet Union, as Woll as shorter slave in Poland and Czechoslovaksa, topped off by three weeks in

Mary Jane Bagley has also returned to Honniula, after working in Washington, D.C.







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